

<211> 319  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (306)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (317)  
<223> n equals a,t,g, or c

<400> 48  
ggcacgagcc agaacaaaaa gtacaatagc tggctgtcaa ttgcttagtca aataacttag 60  
caactggggaa ttccmgtgt tacttaggga atttataact ggtgcatttc aataaagaac 120  
tgaaaagtaag cacaagaaga aaaaaaggct tatcttgct ctagattttg caaaggggaa 180  
atttcaacag aacgcaatca ttgctacacg tctgccaaga cacaaggctt gggcatctt 240  
tttttgttca ttgtttttgg atacttagct agttttcctt aaatgtatac cattggaggg 300  
ggatanctgg gccttngg 319

<210> 49  
<211> 278  
<212> DNA  
<213> Homo sapiens

<400> 49  
gacggatgaa gagatcgccg cggtggagcc gttacaaagc gttgaacgcc ggacgtacca 60  
gtaaggctat tcataaaaggc ctgggtggc gtaaaggctg gctggtaaa ctgccttcat 120  
taccgcttcg ctggcgggcg cgtggagtga tgaccctrat gtttatctt ctggcggcca 180  
tgctttggtt tggtgctgcc ccgggtggta cgtatatcct ctgtgcgtta gtggattgt 240  
tggcagcggcc tgtttgaat ggcagattgt acgcccgt 278

<210> 50  
<211> 652  
<212> DNA  
<213> Homo sapiens

<400> 50  
ctttctcacc actctcctgc tagccatctc tttggcacta aggccctggt caaatggat 60  
ttctttcatt ttccacact tcaaagaccc atgttctagg tattctccat agggatagtc 120  
tctttggcat ttatgggtt ttctacgtt ttctgtccca tttactccaa gactcactcc 180  
ctgccaccta gtgcatacaga tacagctact tctgctgac tttcaaggg ggaccaccct 240  
acctgtcatt tcttcactgt tcagaaatga ctgtgtcagt ggcacctcaa actcccttgc 300  
tgtccttttc caaggagaca gctaagggtt atggagatgc agaatggacc tcacgttgc 360  
cctagtcagg actgataaccc ttccgtttc agaggattgc caagaaaaaaaa ctcacagttg 420  
aggcagggtg ctctgagggtc ggctgcgggtg tgggaggcac gsctgggcmt gctcttggg 480  
ctggagcagg tggattcgaa ggcctgtata gcacggggc ccaaaggctt tgtcaagtggc 540  
cagtagctct gccccttcc ccagagaggg ggtccagggg acatccctgga aggctggcc 600  
ctgggccacc ttctgtctt gcaagctaga gccagccaa tagggggcgg at 652

<210> 51  
<211> 943  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (140)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (786)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (843)  
<223> n equals a,t,g, or c

<400> 51  
gctttgcac agatcgcttc ttcaaattgt ggcacaacgc ccagagctcg atgagagaac 60  
agcccatctt caccacccga gcgcattgtct tccagattga ccccaacacc aagaagaact 120  
ggatgcctgc gagcaagcan gcggtcacccg tttcctactt ctatgtatgc acaaggaaca 180  
gctatcgat catcagtgtg gacggagcca aggtgatcat aaacagcaca atcacaccga 240  
atatgacctt cacaaaacg tcacagaagt ttggcagtg ggccgacagc agagccaaca 300  
cagtgtttgg ttgggggttt tcctctgagc agcaagctgac aaagtttgcg gagaatttcc 360  
aggaggtgaa agaagctgcc aagatagcca aagacaagac gcaggagaaa atcgagacct 420  
caagtaatca ttcccaagca tccagtgtca acgrgacggc cgatgaaaag gcctctcacc 480  
ccggtccacgc caacacacac ctgaagtctg agaatgacaa gctgaagatt gccttgacgc 540  
agagcgcacc aacgtgaaga agtggggat cgagctgcag acccttcggg agagcaatgc 600  
acggctgacc acagcactgc aggagtccgc agccagtgtg gagcagtggc agaggcagtt 660  
ctccatctgc cgtgatgaga atgaccggct ccgcaacaag attgatgagc tggaaagaac 720  
aatgcagtga gatcaacaga gagaaggaga agaacacgcg gctgraagag gaggatcgag 780  
gagctnggag gcagagctcc gagaaaaagga gacagagctg gaaagatctt ccggaaaaca 840  
aantggaaatc mtacytscag ctcctgtca gattgcggat tttgtctctt gagaagctag 900  
aggcggcag agagagacat tcaaaaacttg gaagacaaat gcg 943

<210> 52  
<211> 832  
<212> DNA  
<213> Homo sapiens

<400> 52  
gcgtcgacat agaattgaag ttgctcgica gctgattgaa gataaggaga ttggcctgga 60  
ttatccaggt aggtcaatg taatcaggaa gggcctttaa agttagagag ggasgsagaa 120  
gaggaagtca gagcgatgtg ctgtgaaatc tactaccgtt tgctggttt gaaaatggag 180  
aaaaagagtg aggaactgag aaacatggat ggccttggga acgtggaaaa gggtaactga 240  
aatgggacga catgaactca aggaggctat ttatgaccat gtcatttgcg acatgaagaa 300  
agcttatctg gatgtgaaatg aaatgagagacc aacagagatr agagacccgg agaaatcctg 360

gttacactgc ttgaatcctg tcagtcctat actggagtcc tgttaataaca aaataatagt 420  
aataatccct ctgtttctta tggttatgcc aactcaaca aaaagaaaact tgactaagag 480  
acaatataag aayttaatgt gtaattaaga aagaactctc caccacgggg aatgtgaaag 540  
gtatatgagt ccctttcac gatgcgatgt catgtctttt aaataagcca tactttatgt 600  
tcaataaaaa gagaataagc aggattcgcm agagaacaca atccctttt aactgctggg 660  
aagatacytt tagtcattaa tgrctggacg acaatttggg rcacmtatat ggatattggc 720  
cggtttgtga tgatgtgatt gggcctctaa gtgacaacat tgcccctgt atagagttag 780  
tggcaagtgc atttataaaaa ttggccatca tggctgttaa atttaaaaaaa aa 832

<210> 53

<211> 1554

<212> DNA

<213> Homo sapiens

<400> 53

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cctacggacg gawaaggagg agcattgcag gccgagacgc cctcatcagc agagtcacag 120  
gagttttggg aagtgaagag aaaagaaaaag ttgattacaa acgggaccat attttgcttc 180  
gaaatggAAC cagcagttAG cgagCCAATG agagACCAAG tcgcacGGAC tcatttgaca 240  
gaggacactc ccaaAGTgAA tgctgacata gaaaAGGTTA accmgaatca ggccmagaga 300  
tgcacagtga tcggTggcTC tggattcctg gggcagcaca tggTggagca gttgctggca 360  
agaggatATG ctgtcaatgt atttgatATC cagcaaggGT ttgataatcc ccaggTgcgg 420  
ttctttctgg gtgacCTctg cagCCgacAG gatCTgtACC cagCTctgAA aggtgtAAAC 480  
acagTTTCC actgtgcgtc accCCCacca tccagtaACA acaaggAGCT ctTTTatAGA 540  
gtgaattACA ttggcacCAA gaatgtcATT gaaACTTGCA aagaggCTGG ggttcagAAA 600  
ctcatttAA ccagcAGTgc cagtgtcatc ttTgaggGGCG tcgatATCAA gaatgGAact 660  
gaagacCTC cctatGCCat gaaACCCatt gactactACA cagAGactAA gatCTtACAG 720  
gagaggGCAG ttctTggcgc caacgatCCT gagaAGAATT tcttaaccAC agccatCCgc 780  
cctcatggca ttttCggccc aaggGaccCG cagTTggTAC ccAtCCTcat cgaggcAGcc 840  
aggaACGGCA agatGAAGTT cgtgattGGA aatGGGAAGA actTggTggA cttcacCTT 900  
gtggagaACg tggTccatgg acacatCCTg gcggcAGAGC agCTCTCCCG agactcgaca 960  
ctgggtggA aggCATTtCA catCACCAAT gatgAGCCCA tccCTTCTg gacATTcCTg 1020  
tctcgcatCC tgacaggCCT caATTatGAG gCCCCCAAGT accACATCCC ctactgggtg 1080  
gcctactacc tggccCTCCT gctatCCCTg ctggTgatgg tgatcAGTcc tgcAtCCAG 1140  
ctgcagCCCA cttcacACCC catgcgggTC gcactggCTg gcacattCCCA ctactACAGC 1200  
tgcagAGAGC ccaAAAAGGC catgggCTAC cagCCACTAG tgaccATggA tgatgtATG 1260  
gagaggACCG tgcagAGCTT tcGCCACCTg cggaggGTCA aGTgaggGAC actggaggCT 1320  
gggCTCTCTC gacacGTTgc tcagCCAGTC actCCCTCCC ctgtggattG atgAAATAAC 1380  
atCCCTTgAA tgagTTgCT ctgagCCTGT gactCCTCT gCTAGGcAGA gAGCgCACCC 1440  
tactCTTtCC gtgacgatGA gggcggcAAA aacAGACATT tCTTCCttCA tggAACTGGA 1500  
tttggatttC ttgaAGCAGG CAGCTTCATA ttataCCGAT ttgttCTCTG tcaa 1554

<210> 54

<211> 281

<212> DNA

<213> Homo sapiens

<400> 54

agctatTTAC aggttttaAG caaatgatta tgcgtgtgtt ttaaAGGTat tatattCTAG 60  
atgcTTcatG gaattacGTC atttataCTA tataaATcta taatgtgtam tgaattaaaa 120  
acaAGCTTGG gaaACATAAA CTCAAGTtag AAAATATGGG tttgacataAA aacCTTAAAT 180

atgtttcatt tgtttgcttg tttggcttgt ttgtttctaa cacaagttta acctacatgt 240  
gagtcacctt tgggattgtat gagtctagrg tttgaaacca g 281

<210> 55  
<211> 807  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (770)  
<223> n equals a,t,g, or c

<400> 55  
gcgtcgaccg gagagctgt tcaccatgtg ggtcggttgt ctccctcacc ctgtccgtga 60  
cgtggatgg tgagaggggc catgggtggg gggatgcagg agagggagcc agccctgact 120  
gtcaagctga ggctcttgc cccccaaccc agcacccccag cccagacagg gagctggct 180  
ctttctgtc tctcccagcc ccactccaag cccatrrccc cagccccctcc atattgcaac 240  
agtccctcaact cccacacccag gtcccccgtc cctcccaactt acsccagarc tttctcccc 300  
ttgcccagcc aactccctgc tcccagctgc tttactaaag gggaaagtccc tgggcacatctc 360  
cgtgtttctc tttgtgggc tcaaaaacctc caaggacccctc tctcaatgcc attgggtcct 420  
tggaccgtat cactggtcca cctcctgagc ccctcaatcc tatacagtc tactgacttt 480  
tcccattcag ctgtgagtgt ccaaccctat cccagagacc ttgatgctg gcctccaaat 540  
cttgccttag gataccccaga tgccaaaccag acaccctt cttccttagcc aggctatctg 600  
gcctgagaca acaaattgggt ccctcagttt ggcaatggga ctctgagaac tcctcattcc 660  
ytgactctta gccccagact cttcattcag tggcccacat tttccttagg aaaaacatga 720  
gcattccccag ccacaactgc cagctctctg attccccaaa tctgcacccn tcttcaaaac 780  
ctaaaaaaaaa aaaaaaaaaa aagtcga 807

<210> 56  
<211> 656  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (545)  
<223> n equals a,t,g, or c

<400> 56  
gaccctctca caccaggta cccagcaaat gaatatgctt ataggcgtgg aattgcagag 60  
gctgttggtc tgccaaagtat tcctgttcat ccaattggat actatgcatt cacagaagct 120  
cctagwaaaa atgggtggct cagcaccacc agatagcagc tggagaggaa gtctcaaagt 180  
gcccctacaat gttggacccct gctttactgg aaactttctt acacaaaaag tcaagatgca 240  
catccactct accaatgaag tgacaagaat ttacaatgtg ataggtactc tcagaggagc 300  
agtggaaacca gacagatatg tcattctggg aggtcaccgg gactcatggg tgytgggtgg 360  
tattgaccct cagagtggag cagctgttgt tcattgtttt gtgaggagct ttggaaacact 420  
aaaaaaagaa ggggtggagac cttagaagaac aattttgtttt gcaagctggg atgcagaaga 480  
atttggatctt cttgggtcta ctgagtggtc agaggrgrat tcaagactcc ttcaagagcg 540  
tggcntggc tttatattaa atgctgactc atctatagga agggaaactac actctgagga 600  
gttggatgtt acaccgcttg atgtacagct tggtacaccaa ctttacccaaa gagctg 656

<210> 57  
<211> 794  
<212> DNA  
<213> Homo sapiens

<400> 57  
gcggccgcag gcagcccacc ccgyccacgt cgccggagcc gccgcgcagc agccccaggc 60  
agaccccccgc gcccggcccc gcccgggaga agagcgccgg caagaggggc ccggaccgcg 120  
gcagccccga gtaccggcag cggcgcgagc gcaacaacat cgccgtgcgc aagagccgcg 180  
acaaggccaa gcggcgcaac caggagatgc agcagaagtt ggtggagctg tcggctgaga 240  
acgagaagct gcaccagcgc gtggagcagc tcacgcggga cctggccggc ctccggcagt 300  
tcttcagca gctgcccage cggcccttcc tgccggccgc cgggacagca gactgccggt 360  
aacgcgcggc cggggcgaaa gagactcagc aacgacccat acctcagacc cgacggcccg 420  
gagcggagcg cgccctgccc tggcgcagcc agagccgccc ggtgcccgt gcagtttctt 480  
gggacatagg agcgc当地 aactacagcc tggacttacc accactaaac tgcgagagaaa 540  
gctaaacgtg tttatatttcc cttaaatttat tttttaatg gtatctttt ctacatctta 600  
ctcctgttga tgcagctaag gtacatttg aaaaagaaaa aaaaccagac tttcagaca 660  
aaccctttgt atttagata agaggaaaaag actgagcatg ctcactttt tatattaatt 720  
tttacagtagt ttgtttagaaat aaagcagcat ttgaaatcgc aaaaaaaaaa aaaaaaaaaa 780  
aaaaaaaaaaa aaaa 794

<210> 58  
<211> 1155  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (135)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (432)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (443)  
<223> n equals a,t,g, or c

<400> 58  
aaaaagccag aagatgaaat tgctagttca aagtgttgg attgctagtc atgtcatgag 60  
gatcagaagg ttgagattt tgtagaagct tagaccagtg tgatagtagt gattggatca 120  
agacgttgc aaaanggact aggctcatag taacctcgcc tgataaacaa cttgatgcag 180  
atgtttcccc caagccact atttcttcc ttcrattgct gaaacaaarc tccagaaggc 240  
tggAACACATAC CTTGTCTTC ttgagaaaatt tttccwgat rttatTAAGA tacattggaa 300  
agaaaagaag agcaacacga ttctgggatc ccaggagggg gaacaccatg gaagactaac 360  
gacacatACA tggAAATTAG CTGGTTAACG GTGCCAGAAA AGTCACTGGA caaagaacac 420  
agatgtatcg tncagacatg agnaataata aaaacggrrgt tgatcaagaa attatcttc 480

ctccaataaa gacagatgtc atcacaatgg atcccaaaga caattgttca aaagatgcaa 540  
atgatacact actgctgcag ctcacaaaca cctctgcata ttacatgtac ctccctctgc 600  
tcctcaagag tgggtcttat tttgccatca tcacctgctg tctgcttaga agaacggctt 660  
tctgctgcaa tggagagaaa tcataaacaga cggtggcaca aggaggccat cttttcctca 720  
tcggttatttgc tccctagaag cgtcttcgtga ggatcttagtt gggctttctt tctgggtttg 780  
ggccatttca gttctcatgt gtgtactatt ctatcattat tgtataacgg ttttcaaacc 840  
agtgggcaca cagagaacct cactctgtaa taacaatgag gaatagccac ggcgatctcc 900  
agcaccaatc tctccatgtt ttccacagct cctccagcca acccaaatacg cgcctgctat 960  
agttagaca tcctgcggct tctagccttg tccctctttt agtgttctt aatcagataa 1020  
ctgcctggaa gcctttcatt ttacacgccc tgaagcagtc ttcttgcta gttgaattat 1080  
gtggtgtgtt ttccgttaat aagcaaaata aataaaaaa aatgaaaarw aaamaaaaaa 1140  
aaaaaaaaaaa aaaaa 1155

<210> 59

<211> 492

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (201)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (454)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (467)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (473)

<223> n equals a,t,g, or c

<400> 59

ggcacgagtgcaggggtcaa cccttataaa tgcagtcaat gtgagaaatc cttcagtggg 60  
aaattacgcc ttcttgata ccagagaatg cacacaagag agaaaccata tgaatgcagt 120  
gagtgtaa aagccttcat taggaattct caactcattt tacatcaaag aactcattca 180  
ggagagaaac cctatgggtg ncaatgaatg tggaaaaacc ttctctcaaa aatcaattct 240  
cagtrcacat cagagaacac atacaggaga gaagccttgt aagtgcactg aatgtggaa 300  
agcctttgt tggaagtgcac agctcattat gcatcagaga actcatgttag rtgacaaaaca 360  
ttgataattt tacgaaactc tgaaaagtgg attcacaaga gatagaaaca atcatatata 420  
aagagaaaact ctgtaatggg aatcatcttg tccntcttcc agaaaantca tantgaatag 480  
aaactttatg ga 492

<210> 60

<211> 1617

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1590)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1592)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1595)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1617)  
<223> n equals a,t,g, or c

<400> 60  
ggaggccctg cgagaggact gtgcggccca ggcacagcgg gcacagcggg cccaacagwt 60  
gctgcagctg caggtgttcc agctgcacag gagaagcggc aattgcagga cgacttcgca 120  
cagctgctgc aggagcgcga acagctggag cggcgcgtcgcc acatcgatcc 180  
gggagctcgg gcccaggctt gaggagacca agtgggaggt gtgccagaaa tcaggcgaga 240  
tctccctgct gaagcagcag ctgaaagagt ctcaggcaga gctgggtcag aagggcagcg 300  
agctggtgcc tctgcgggtg gcgctgcggg aggcccgtgc tacgctgcgg gtcagtgagg 360  
gccgtgcgcg gggctcacag gaggccggcc gagctcggga gctggagctg gaagcctgtt 420  
cccaggagct gcagcgacac cgccaggaag ctgagcagct gctgggagaaa gctgggcagt 480  
tggatgtga ggccggccgga ctccgggagc cccctgtgcc acctgcccacc gctgaccat 540  
tcctcctggc agagagtgtat gaggccaaag tgcagcgggc agcagccggg gttggggca 600  
gcttgcgggc ccaggtggag cgattgcggg tggagctgca gctgggagcgg cggcgggggtg 660  
aggagcagcg ggacagctt gagggggagc ggctggcctg gcaggcagag aaggagcagg 720  
tgatccgcta ccagaagcag ctgcagcaca actacatcca gatgtaccgg cgcaaccggc 780  
agcttagagca ggagctgcag cagctcagcc tggagctggc ggcccggag ctcgctgacc 840  
tgggcctggc cgagcagccc cctgcatactg cctggaggag atcactgcta ctgagatcta 900  
ggggccctcag caaccagctc tgttagggagc tctgccagag gggcagcagc tgcagatcca 960  
cttagggcccc aggtccacg gatggccca aaggctgagg gccccaaagc cacttgtctc 1020  
cttaggatcca ggccctctggg cttctgccaa gaactcaggg tggccctatg acttggagga 1080  
gcaagatcag accgctcaaa ggtccccgtt ttcaactgtta cccagaggtcttgcgttacta 1140  
cccacttcat tccccaccgc tgccagtgc actgccaacc ctgttccacag gcgcttccag 1200  
cccactccag ccaggggagc agggaaag aaggggctcc ctccctttca cattcccccc 1260  
gaccccaaag ccagagaaag ccagatggca ccagctgctc cggatgtgcc tgcccacatt 1320  
ggggggacagg gcccggcctg ggctcggttc ccaggttga gctctgcagc ctctctcctg 1380  
gagtgaggggg gctgaagtca gaccaaagga agaactcaga aatgtcttgtt ttattgtgt 1440  
ttgtgaccaa gcaagcctctc ctttcaccca ggttatggc ctcgttttca cttgtatatt 1500  
tttcacactg taaaatttctt gtacaaaccc aaagaaaaaaa ttaaaaaaaaaa tttttttgtt 1560  
aaaaaaaaa aaaaaaaaaa aaaaaaaaaan cncnggggg ggcgggtac ccaatn 1617

<210> 61  
<211> 1653  
<212> DNA  
<213> Homo sapiens

<400> 61  
aaatatgaga attttaagt aatatattga tyaaagatca ctgatgatat agatataata 60  
tatcataaca gaaggaaagt aaatggactt gagcttaact ttcacccctg gaattattag 120  
tgggtgaaga ggggaatcat tagcattctg ggcgtttta tattaaatgt tttgtgaata 180  
tgccagaaga tctgccttca acttgtaatt aggcaagata gtaaygctt atggtaactt 240  
ctatgttgt gttagaaataa taccagttag ttttggaaag ccattcagat ccattcaaaa 300  
atccataaaa gtatgtgta tgcttgaa gaggatatg agtgatacaa ttgttataata 360  
aatgaaatag acaaaccatt tgaatgcatt tttcttagggc aaacatttt tgagatttt 420  
gagttaaagaa gatTTTCGG cttgagcaga agatgtgtt gtttgcatt tttcagctcc 480  
aaggaaatag cccccatggc tttaaaaggc cctgaagttc agatagtagt aggttagtgtt 540  
ttgttatgt tttaatttga gagttgcagg aataatggc agagctgtca ttgcggta 600  
ckaccatctg cctacataga attattggac tgtaagctaa aacagactgt aaaagaccta 660  
cttgctaaag cattgcttat tcagtggat tcagtagata agatcttattt cctgatataat 720  
tgtgctcaag ttatTTGcac atcttaagaa actttaata tctaaaacca ttgttgaag 780  
attttaggttag aggaggtttc cttttgtgtg atgcataata atagaaaaaca ctgatacagt 840  
gtttactatg tgccaagcaa gcatatgata actaattctt aacaactcta tgagggcagg 900  
tcatttatta tcctgttgc atatgaggaa atctcgccag agagaagttt attaacctgc 960  
ccaaggcgt atagtttagta aagtggcat gcttggattt taaccttaggc agattacttc 1020  
agagtcagcg tctgccttac tattctgtt cctgagcagg aattttcccct tttgtcaggc 1080  
aacacttagt gtaggagtg gaggtgtgca gatgttgct tacattctgt tttcctgatg 1140  
tggtgtgctt cctaaagagta caaacctgag catatgtcca ggcttgcaaa gtctcaggca 1200  
aagctggac taaggctgtt gtttcctgcc ttggtagga tttcttcta tgcattttgg 1260  
gtgcttcata cttAACCTAA tagtattgcct tgtctgttt ccccccttcc cctttttgtt 1320  
taaattgatt cacagaacac aaaaatttac taggtatgaa catttggaaaa aatggaatag 1380  
agaaaaatggt acatcacatg taataaaagat aaatattgtt ttgtgaaatg tcttttcaa 1440  
tcataaatat gtgttgtgt ctatataaaa ctatttctta ttgtggatat tgaagttga 1500  
agcctgttgt tcatctatag atgcactgga tgggattgga agtcttcaga tttcagtagg 1560  
gtttccaca agcttatgaa gacattgttc tgtttaggct gtaaaactgtt ttatTTCTT 1620  
gatggaaaat gttcttctat ttatatgatc cca 1653

<210> 62  
<211> 440  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (408)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (410)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (431)  
<223> n equals a,t,g, or c

<400> 62  
gaattcggca gagentaaa taatttatta tatggtaaaag gtggcatttc aaatcaatgg 60  
gaaaaggtagtac gtttattgac aaaggtagt aagcaacggg ttaagatttg gaaaataact 120  
atctctgctc ccaaacattc accatatgag actgttagacc taataaaaat aaacataaga 180  
ttatgagaat aaaatataaa taaatatttt atactatctt gcagtggat aggaattgtc 240  
tcactcctgc tgggtgact ccccatgaac cccagggtc ttca gttcca aagrggaaaa 300  
aggggaacag atggcctc ccccttc actcccctgg gacccaggat tgctccctga 360  
aggttttca gccaccctcc ttcccatattcc tcctgggggg ccaaggangn taaaacagca 420  
ggcccttcc ngtgttgc 440

<210> 63  
<211> 1062  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (948)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (974)  
<223> n equals a,t,g, or c

<400> 63  
aattcggcac gagggAACCT tgaaccagcc rctgacccaa ttggatagat cttctgaaga 60  
gcctttggga gttctggtaa atcccaacat gtaccagtcc cctccccagt gggttgacca 120  
cacagggtgca gcctcacaga agaaggctt ccgttctca ggatttggac tagagttcaa 180  
ctcatttcag caccaggtagc gaatccagga tcaagaattt caggaaggct ttgatgg 240  
ctgggtcctc tctgtacatc agccctgggs ttctctgctt gtcagagggta taaaagggt 300  
ggagggcaga tcctggtaca ccccccacag aggacgactt tggatagcag ccacagctaa 360  
aaaaccctcc cctcaagaag tctcagaact ccaggttaca tatcgcttcc ttctgggaa 420  
agatgtggaa ttccctaattt actatccgtc agttgtttc tgggtgtgtt ggacctaattt 480  
gactgcttgtt cccagaagca atttaaggag cagttccag acatcagtca agaatctgt 540  
tctccatting ttttcatctg caaaaatctt cagggaaatgg ttgtgaagtt tcctattttt 600  
ggaaatccaa aaatctggaa attggattcc aagatccatc aaggagcaaa gaagggtta 660  
atgaagcaga ataaagctgt ctgacccagg agaaaaaggaa ctatacagca tagtgagtt 720  
ttgtgtacta aaattgttat ctactggtcc tttgaattt aagtagttaga aacctaaagg 780  
cttggcgtca ggcttgaata tctcagaact taaaacttta caaaaatctg tatattttc 840  
ttaaggagtg ggattcctac tttatgtat ggggtcgaaa tctttgaaca cattatttt 900  
aaaaacctgt taaaagggtc gacggtatcg ataagctgg atatcgant cggcacgagc 960  
ccacctctac ctcnnggggg accggcctgg acgctggtgg ccccgggacc cagcagagct 1020  
gggggaagggtt tcagccccccaa aagaaaatgg ggggtgcattgc tg 1062

<210> 64

<211> 422  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (252)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (349)  
<223> n equals a,t,g, or c

<400> 64  
ggcagaggga agaggaaggg aggggagggg agcccccgttct tcctggtaga tacaaaagctg 60  
ggctctggat acccttgaag cagtgcacag cctgtacaac agtcccccagc agccctgtct 120  
atccccccagc atctccctgc tagctgctgt tccctcttcct cccgctggct gggcctgctg 180  
ccaagctgtg gtgactcagc tgagctggca cattgaccccc agcttatttgt ttaaaaaacca 240  
gcccgaactgg gnaatttatg gtttcctatac cccttccaca cattttctg gccacaaggc 300  
aagaaactta tctctggcat cttcagattt cttstatttw attttgggncc ttcccttgcc 360  
tggcaatatg tttcatagag tgggtaagtg agacctgaca ggtgttttca aggataattt 420  
ca 422

<210> 65  
<211> 709  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (674)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (684)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (692)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (697)  
<223> n equals a,t,g, or c

<400> 65  
aattcggcag agcgcttctc cattctctgt gggttgtgtt gttttcttca tgaattccga 60

agtttactct tggatgatct agttgaagag ctagtgtta ctgatcacac tgtctctct 120  
ccttcaaattt ggtgcattt agctgctct agtcagccct cttgcccaga atccccaaaa 180  
agaaaattgt tagttcagg attgttagtt ttttttgg ttaacatgag atatgtgatt 240  
ataataaaact tcaagtattc aggaccattt tatgataaa aggagaatct aactttaaa 300  
agttggaaa atgatTTAAT attggaaact caagagttac aaattcttac agttatttca 360  
aaactaaagg ttctttaga gctccaaatt tagagctata aatcctataat ccgtaatcaa 420  
atccagtaact gataacaatg aacaattgt gaagagtaat attctcttc tctttaccaa 480  
tgtaagcctt agcattggta ctttcttgwa wtatctttt gcatgccatt atgatcagaa 540  
aaaacaaaaa gctacccaga aagggcagcc acatctaaa tgataggcTTTACCCCT 600  
gagggggctg cttagtacct acctggatta ggaattcatt tggtaaaca cagggggcct 660  
tttaaatcta aatnaccatt tccnaataat tngtttncg tttattccg 709

<210> 66

<211> 1302

<212> DNA

<213> Homo sapiens

<400> 66

gctcgacaag aagagaaaga aggacatgct gaatagcaaa accaaaaactc agtatttcca 60  
ccagggaaaaa tggatctatg ttcacaaagg aagtactama gagcgccatg gatattgcac 120  
cctgggraa gcttcaaca gactggactt ctcaactgcm attctggatt ccagaagatt 180  
taactacgtg gtccggctgt tggagctgt agcaaaagtca cagctcacat ccctgagtgg 240  
catcgcccaa aagaacttca tgaatatttt ggaaaaagtg gtactgaaag tccttgaaga 300  
ccagcaaaac attagactaa taagggaaact actccagacc ctctacacat ccttatgtac 360  
actggtccaa agagtcggca agtctgtgt ggtcggaac attaacatgt gggtgtatcg 420  
gatggagacg attctccact ggcagcagca gctgaacaac attcagatca ccaggcctgc 480  
cttcaaaggc ctcacattca ctgacctgcc tttgtgccta caactgaaca tcatgcagag 540  
gctgagcgc gggcgggacc tggtcagcct gggccagctg ccccccaccc gcacgtgctc 600  
agcgaagacc ggctgctgtg gaagaaactc tgccagtacc acttctccga gcggcagatc 660  
cgcaaaacgat taattctgtc agacaaaggg cagctggatt ggaagaagat gtatttcaaa 720  
cttgcggat gttacccaag gaaagagcag tatggagata cccttcagct ctgcaaacac 780  
tgtcacatcc ttccctggaa gggcactgac catccgtgca ctgccaataa cccagagagc 840  
tgctccgttt cactttcacc ccaggacttt atcaacttgt tcaagttctg aatcccaagca 900  
catgacaaca cttcagaagg gtccccctgc tgactggaga gctgggaata tggcatttgg 960  
acacttcatt tgtaaatagt gtacatttt aacattggct cgaaacttca gagataagtc 1020  
atggagagga cattggaggg gagaaatgca gttgctgact gggaaattaa gaatgtgaac 1080  
ttctcactag aattggatg gaaaagcaaa atactgtaaa taaactttt ttctaacaat 1140  
ttgccagcaa gactataagg gcaataattc tatttcagcg gtgaaaatgg agtcctctta 1200  
atggtcacag aaactctctt atagttccct aggaagaaaa aggcaaaaact caaatacaaa 1260  
ataggacgct ttgtttacaa tgtgaaaatt tggtagaaaa ag 1302

<210> 67

<211> 1046

<212> DNA

<213> Homo sapiens

<400> 67

aattcggcac gagcttctgt tggtgttatt ttcaattcta tttccagtc cacaatagag 60  
tgatatttaa gcaactccta caggcgaagg ccctgcagtt cctccagatt gacagttgca 120  
gactggcag tgtcaatgag aacctctcag tattgctgt ggcacaaaaag tttgaaattc 180  
ctgtttgccc ccatgctgtt ggagttggcc tctgtgaact ggtgcagcac ctgattatat 240

tgtactacat atcagtttct gcaaggcctg aaaatagggt gtgtgagtat gttgaccacc 300  
tgtcatgagca tttcaagtat cccgtgatga tccagcgggc ttccctacatg cctccccagg 360  
atccccggcta ctcaacagaa atgaaggagg aatctgtaaa gaaacaccag tatccagatg 420  
gtgaagtttgaagaaaactc cttccctgctc aagaaaatta agtgctcag cccaaacaact 480  
tttttcttc tgaagtgaaa gggcttaaaa ttcttgaa atagttttac aaaaatggat 540  
ttaaaaaaatc ctaccgatca agatgagttc agctagaagt cataccaccc tcaggaatca 600  
gctaaatgtat tattacttga ttcttttagc aaatcaatgc acgttatcct acttaatcct 660  
taaataagtt tagatttaac taacccaaag tccaggagga tgttcttaca aaaatacgta 720  
tatcaagggc tggcacctag acattaaact gtaatttgaa aataagcaac atgttgcat 780  
acttggatataattcctt gttctgttta acacttgtca taaatttagca gaataaaaaat 840  
agtcgtgcaa cacccggggt atctggatg caacgaagg raaaatattt cactgattaa 900  
ccccgaaatgt gtttgcatc ttttccttgc ttaatctaaag catatttatta gagaagtcac 960  
accatgtca agctaatgag ggcaaaaatgg tagtccatag attatTTAA aataaccctt 1020  
taaggttata aaagttaaa aaaaaaa 1046

<210> 68  
<211> 501  
<212> DNA  
<213> Homo sapien

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<220>
<221> misc feature
<222> (45)
<223> n equals a.t.a, or c
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```
<220>
<221> misc feature
<222> (311)
<223> n equals a.t.q. or c
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<220>
<221> misc feature
<222> (404)
<223> n equals a.t.g. or c
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<210> 69  
<211> 581  
<212> DNA  
<213> *Homo sapiens*

<220>  
<221> misc feature  
<222> (149)  
<223> n equals a,t,g, or c

<400> 69  
aattcggcac gagggaaaga aggccatgta ggggcttgct ttagtcatcc actgctaact 60  
cattaactat taattcaagc aatatgtatt atagaaccgt ttttgttagc attggaatat 120  
tgtccatccc gtaagtcat gtgaatgtnc ttaattatca gcttgaaggt atttttgtat 180  
taaaaaggta cattgaagaa cctaagtggta tgatgggatt tggggccagt agtggaaagta 240  
tggttcctct aaaatatttc cctaaacagt ggtatacatg gttatTTTtat tatgagattt 300  
gtatatgttc tgggtttctc tgtgaacaat gtttcagtct ctctgtcacc atatgttaagg 360  
ggaagtccac aaatataagac tacattgcac aaaactaaaa ttgttaattha caagaaaata 420  
taggtgctta ccttttgaag gtttattaaat acatatggtt gtcacaatac gtatatatga 480  
taaatgggt acatatacag atgtttatgg tgtataaatt tttctataacc caaaaaaaaaa 540  
aaaaaaaaaaa aaaaaaaaaaaa aaaaaaggggg gggccccccc a 581

<210> 70  
<211> 1076  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (911)  
<223> n equals a,t,g, or c

<400> 70  
tccaaacaga gggagcagct atttaagggg agcaggagtg cagaacaaac ragacggcct 60  
ggggatacaa ctctggagtc ctctgagaga gccaccaagg aggagcaggg gagcgacggc 120  
cggggcagaa gttgagacca cccagcagag gagctaggcc agtccatctg catttgcac 180  
ccaagaactc ttaccatgaa gaccctcta ctgtggcag tgatcatgat ctttggccta 240  
ctgcagcccc atggaaattt ggtgaatttc cacagaatga tcaagttgac gacaggaaag 300  
gaagccgcac tcagttatgg cttctacggc tgccactgtg gcgtgggtgg cagaggatcc 360  
cccaaggatg caacggatcg ctgctgtgtc actcatgact gttgctacaa acgtctggag 420  
aaacgtggat gtggcaccaa atttctgagc tacaagttt gcaactcggg gagcagaatc 480  
acctgtgcaa aacaggactc ctgcagaagt caactgtgtg agtgtgataa ggctgctgcc 540  
acctgttttg ctagaaacaa gacgacctac aataaaaaagt accagtacta ttccaataaaa 600  
caactgcagag ggagcacccc tcgttgctga gtccctctt ccctggaaac cttccaccca 660  
gtgctgaatt tccctctctc ataccctccc tccctaccct aaccaagttc cttggccatg 720  
cagaaagcat ccctcaccca tcctagaggc caggcaggag cccttctata cccacccaga 780  
atgagacate cagcagattt ccagccttct actgctctcc tccacctcaa ctccgtgctt 840  
aaccaaaagaa gctgtactcc ggggggtctc ttctgaataa agcaatttagc aaatcawrwa 900  
aaaaaaaaaaa naaaaaagaa aaaaagtttt ggcctaaatg agtcgtattha cagttgacgc 960  
ggccggcgaa tttagtagat ggtgtaaatc gacccgagaa attccggAAC cggaactctg 1020  
aggggtgaca agttccccca agagcggcg attaaggctt gggcggacaa agggcg 1076

<210> 71  
<211> 376  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (347)  
<223> n equals a,t,g, or c

<400> 71  
gcccacgcgt ccgaggaggg ccgcsttcc ggtctgggtc ccsgagagga ctgccttgct 60  
cacctgtccc ctcggcgccg cccccgggag ctcccagag gccccmggga tcgctggccc 120  
tccgaactcc acagcaatga gcaagttggg caagtcttt aaagggggcg gctttctaa 180  
gagccgagcc gctcccagtc cccaggaggc cctggtccga cttcgggaga ctgaggagat 240  
gctgggcaag aaacaagagt acctggaaaa tcgaatccag agagaaatcg ccctggccaa 300  
gaagcamggc acgcagarta agcgagggat cwgmacwaaa tagatgntt gatgcaagag 360  
atcacagagc aacagg 376

<210> 72  
<211> 374  
<212> DNA  
<213> Homo sapiens

<400> 72  
aattcgaacs a cccagggcac cctgcccatt tatcccamgc agagggagca gaaccagcgg 60  
tgttaactact gtgttgcaca cccagggcg gtctttttt aactcaccga tcttccatgc 120  
aacaaaattt tttctgtga aaagcaggaa atgaataaca acagcgtagg tactccactt 180  
caaattccc aagaaattca gaagaatgt gaacaagttg ctggttcac aatactgcaa 240  
gacactgcaa gttattccaa gttcctacag gacaacgatg cacaattatt tacttactta 300  
tgtttaaata tacctatcag ttgactttc atcccttggt gacattctaa taatttatgt 360  
aaataattat tcag 374

<210> 73  
<211> 419  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (221)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (411)  
<223> n equals a,t,g, or c

<400> 73  
aattcggcag agctgcattt gtttttaggg ccaatggact tggaggcata gagatttat 60  
aactactgcc agaaccaaaa tattgccagt sggcctttc tgctgctgtt gctagctgtc 120  
ttcttctggg ggaaatgggt tgggttctaa atatgaatta acacagggtt gtcttcgtat 180  
aattcagcac aaaatgttct cagcaatga acactcgag ngaagtgtt ggcatttagt 240  
gcagactcat agaatagcag gacagggagg gattggatc tggcaagca ggagatgggt 300  
atgaacatct gtcttttgag acctgcccag gtggcaatga aggttagaggc ccctgtgtt 360

aggctttat tcaagaggct gtggccctt tggactaa catagcatcc nttagacag 419  
<210> 74  
<211> 286  
<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc feature  
<222> (134)  
<223> n equals a,t,g, or c  
  
<220>  
<221> misc feature  
<222> (154)  
<223> n equals a,t,g, or c  
  
<400> 74  
gcaggcgact tgcgagctgg gagcactta aaacgcttg gattcccccg gcctgggtgg 60  
ggagagcgag ctgggtgccc cctagattcc ccgcggccgc acctcatgag ccgaccctcg 120  
gctccatgga gcccngcaat tatgccacct tggnatggag ccaaggatat cgaaggcttg 180  
ctgggagcgg gagggggggcg gaatctgtc gcccactccc ctctgaccag ccaccagc 240  
gcgcctacgc tgatgcctgc tgtcaactat gcccccttgg atctgc 286  
  
<210> 75  
<211> 633  
<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc feature  
<222> (89)  
<223> n equals a,t,g, or c  
  
<220>  
<221> misc feature  
<222> (531)  
<223> n equals a,t,g, or c  
  
<220>  
<221> misc feature  
<222> (570)  
<223> n equals a,t,g, or c  
  
<220>  
<221> misc feature  
<222> (618)  
<223> n equals a,t,g, or c  
  
<220>  
<221> misc feature

<222> (623)  
<223> n equals a,t,g, or c

<400> 75  
aggtagaaaa gcgagcagcc gtccttcac agcctcagaa agtgctcgct tcccttcggg 60  
ggcttcgca aatcccgagg caatctcgna ggccgttattt gacctgtcca aagacgactt 120  
gatacctcta taatgtaca aaaaaggta gaaaatatta agcaagtaga agtgtggagc 180  
atattaagca agatgaacat ctcggaaagc agctgtggaa gccctaactc tgcatgataca 240  
tctagtact ttaaggacct ttggacaaaa ctaaaagaat gtcatgatag agaagtacaa 300  
ggtttacaag taaaagtaac caagctaaaa caggaacgaa tcttagatgc acaaagacta 360  
gaagaattct tcaccaaaaaa tcaacagctg agggAACAGC agaaaagtctt tcatgaaacc 420  
attaaagttt tagaagatcg gttaagagca ggcttatgtg atcgctgtgc agtaactgaa 480  
gaacatatgc ggaaaaaaca gcaagagttt gaaaatattc cggcagcaga ntcttaaact 540  
tattaccgaa cttatgaatg gaaaggatgt tctaccggga ggaattaaaa gctttctgga 600  
caactccgccc ggaatttngna tgntcaccgc ttc 633

<210> 76  
<211> 256  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (48)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (134)  
<223> n equals a,t,g, or c

<400> 76  
agcacaagtt caggaccagc ctgcgcacaaca tagcaagatc cccatctnta caaaaaaaaaat 60  
aaacaattag ccagggcata gtggcatatg cccattgtcc catctactct ggaggctgag 120  
gcggggaggtt cgangttcac agaaccatcc taaccatcc agctagccag gtagaaggcc 180  
tccaggtccg acgttgcatt cccccagggtc tgatgtgtc tgcaatcttc atcccttaggc 240  
agwagagcta aaaatg 256

<210> 77  
<211> 694  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (668)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (673)

<223> n equals a,t,g, or c

<400> 77

agcagcaagg ccaagcatgc aagaktcacc atccaccctg gccatgatgc agggcctcct 60  
ttgctggacc cgtagccctg caggacagag actggcagcg caccgtcatc gccatgaatg 120  
ggatcaagt aaagctctcg gtcaagttca acagcaggga gttcagctt aagaggatgc 180  
cgtcccgaaa acagacaggg gtcttcggag tcaagattgc tgtggtcacc aagagagaga 240  
ggtccaaggt gcctacatc gtgcgccagt gcgtggagga gatcgagcgc cgaggcatgg 300  
aggaggtggg catctaccgc gtgtccggtg tggccacgga catccaggca ctgaaggcag 360  
ycttcgacgt caataacaag gacgtgtcgg tgatgatgag cgagatggac gtgaacgcca 420  
tcgcaggcac gctgaagctg tacttccgtg agctgcccga gcccctcttc actgacgagt 480  
tctaccccaa cttcgcagag ggcatcgctc ttccagaccc gggtgcaaag gagagctgca 540  
tgctcaacct gctgtgtcc cttgccggag caaaccttgc ttcamcttcc 600  
ttggraccam ctgaaaaagg gttggcagag aaggaggca gttcattaag ttccctgcaa 660  
aaaacttngc cangttttt ttggcccaa gttt 694

<210> 78

<211> 2562

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (75)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2556)

<223> n equals a,t,g, or c

<400> 78

ggcacgagt tagacgaagg ctccatatca ccccgactc ttccagccat taagagagct 60  
cttgacgatc acgangatgt aaaagtgtgt gctggggatg atgtgcagac gggagggcca 120  
ggagcagaag aaatgcgtat aaacagctcc accgagaaca gtatgaaagg acttaaagt 180  
agagatggaa aagaataacc gtttactgca acacttgcgt catctagtgt gaactctgca 240  
gaggagcacg tagccagcac taatgaggg agagagccca cagactcagt tccaaaagaa 300  
caaatgtcac ttgttacgt gggactgaa gccttccga taatgtatga gtctatgatt 360  
aaggacagaa aagatcggtt gcctctggag agtgcagtgg ttagacatag tgacgcac 420  
gggctccga atgaaaggaa actgacacccg gcatctycaa cttgtacaaa ttctgtgtca 480  
aagaatgaaa cacatgtca agtgcttgag cagcagaacg aactttgcac atatgagagt 540  
aaattcgatt cttctttt ttcaagtgtat gatgaaacaa aatgtaaacc gaattctgt 600  
tctgaagtca ttggccctgt cagtttgcaaa gaaacaagta gcatagtaag tgccttca 660  
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<210> 79

<211> 1610

<212> DNA

<213> Homo sapiens

<400> 79

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gctacagttt caaacaaatg tatagttttca aaaaagaagc aacttttttgc tccccagtt 180  
tattcttagt ttccagccca cgccttcgc tagsratagg catgtgtatgc gcctcaattc 240  
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<210> 80  
<211> 1048  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (131)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (997)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1021)  
<223> n equals a,t,g, or c

<400> 80  
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aatgctaatg naggctggca ggacgcacaact ctccatctt ctgtacttc tcctacagaa 180  
ggcccaggaa gtgtgcactc ggataacctt aactaatctc tggccacact tttccctgag 240  
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agaatctcc tcgtcacgtt tgggttcaga tctcttatgt tataatttgc tcagagactg 780  
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ntatattaaac atcccaccaa ccaaacac 1048

<210> 81  
<211> 1136  
<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1124)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1131)

<223> n equals a,t,g, or c

<400> 81

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ggacagattg acttttttga ccctacattt gactatgaga ttagtctccg gggaaacagga 120  
gcactgatat ttgtcatttga ctcacaggat gattacatgg aagccctggc caggctccac 180  
ctcacggta ccagggccta caaaagttaat actgacatca acttcgaggt gtttattcat 240  
aaagtggatg gtctgtcaga tgaccacaaa attgaaaccc aaagagatata tcaccagagg 300  
gcaaacatgt accttgcaga tgctggatta gaaaaaaattc acctcagatt ttatctgaca 360  
agcatatatgt atcattcaat atttgaagct ttttagcaag ttgttcagaa actgattcca 420  
caactccaa ctctggagaa ttgtgtgaac atcttttatct caaattctgg aattgaaaag 480  
gcatttttat ttgtatgttgtt cagtaaaatt tatattgcaa ctgtatgtac tccgggtggat 540  
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aagcttaata atacaaccgt gctttatcta aaagaggtga caaagttcct ggctctcggt 720  
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ttccggaaagg ccattcatgt agtttttgag gtgagaatga aagtagttaaa atctcgaaag 840  
gttcagaatc ggctgcagaa gaaaaagaga gccaccccta atgggaccac tagagtgtcg 900  
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ccatgttgca ctaaaggaag aggaagaagg agattgggac acataaccatt gatttgggt 1020  
aaaaaaaaaa aaattcctgc aaccctcttgc atcttctt ttataaataaa agtaagcact 1080  
ttgaagcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaangggggg ncccccc 1136

<210> 82

<211> 297

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<400> 82

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gggagagacc caccgaccct gtggggctgg tccctacatc tggcgctctg acgtggggct 120  
ctccctcgct gtgtgaagtt gcaccctgag tgcgggatca gcgaggagt tcaacgagag 180  
attcctgagg attgcagtct ataaacttgg tgcaggcggc tgaccccgca gctyaacaag 240  
atcaagagggc tgataatcaa gcccctcaagc ccgaaaactca ggctgctca gggaaaag 297

<210> 83

<211> 2150

<212> DNA

<213> Homo sapiens

<400> 83

<210> 84

<211> 601

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (66)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (505)  
<223> n equals a,t,g, or c

<400> 84  
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gccgtacac ccccacacact ccagcctcg ccccactcct tgggtcttta aggtcctgcc 120  
tcaagaacca cttoctgagt cttagtgtat gtgtgtacaa aagaatgaaa gaagtctcta 180  
gagctaaagg aaggagatyc gggctggct gagaagcatc ttccaggatc acggscctcc 240  
cgcgggacac accaagccca ttccggatct tgcttccct gaccatgggt ggcaggytgt 300  
ggaggaggas cgagagacag aagaaaggag tattcatcag gttccttatt gtgctgccac 360  
tagatgccag qcatgtgctt aggcttgggg ggctgcaagg agaggaagac agcggccctg 420  
ccctytyta gcaggcagaa ccgagttytg gccacamtgt gaaggaaagg cagaagcctg 480  
cgktggccary tggtttaagc tcagngggca gggaaaggga agaggagaat ggtttcacg 540  
gagcagaagg ttgtgctcaa ggtggacctt ggagaataaa ggggagagct ccagggaca 600  
g 601

<210> 85  
<211> 534  
<212> DNA  
<213> Homo sapiens

<400> 85  
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ggctagaccc aagtgtacta gccaaggagt tgaagttgt gactttggtg tttcggcatg 180  
gagaccgaag tcccattgac acctttccca ctgacccccat aaaggaatcc tcattggccac 240  
aaggatttgg ccaactcacc cagctggca tggagcagca ttatgaactt ggagagtata 300  
taagaaagag atatagaaaaa ttcttgaatg agtccctataa acatgaacag gtttatattc 360  
gaagcacaga cgttgaccgg actttgatga gtgctatgac aaacctggca gccctgttcc 420  
ccccagaagg tgcagcatc tggaaatctt ctccactctg gcagccccatc ccggtgacaca 480  
cagttcctct ttctgaagat cagttgcattt acctgaccc ttctgaactt ccct 534

<210> 86  
<211> 1037  
<212> DNA  
<213> Homo sapiens

<400> 86  
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tgtatcacag tgtctatgaa acatatgatg tgggtggaaa gttttatgat ccaatgttta 360  
aatatcacct cactgtggcc caggttcgag gagggatggt gtttgagctt gccaattcca 420  
tagtgcctcc ttttgattgtt cagattatg ctgttagttt aagaaagtat gctgacaaaa 480  
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cacttttttc tgcagtaaaag aattttacag aaattgcattt caagttcagt gagagactcc 600

aggactttga caaaagcaac ccaatagtat taagaatgat gaatgatcaa ctcatgttcc 660  
tggaaagagc atttatttgat ccatttaggt taccagacag gccttttat aggcatgtca 720  
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ctctgttga tattgaaagc aaagtggacc cttccaaggc ctggggagaa gtgaagagac 840  
agatttatgt tgcaagccttc acagtgcagg cagctgcaga gactttgagt gaagtagcct 900  
aagaggattc tttagagaat ccgtattgaa tttgtgttgt atgtcactca gaaagaatcg 960  
taatgggtat attgataaat tttaaaatttga gtatatttga aataaaagtgt aatatttat 1020  
atagttaaaa aaaaaaaa 1037

<210> 87

<211> 597

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (582)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (586)

<223> n equals a,t,g, or c

<400> 87

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gctatttcat acctaattgag ggagttccag gagattcaac cagggaaatgc atggatctca 180  
aaggaaacaa acacccaata aactcggagt ggcagactga caactgttag acatgcactt 240  
gctacgaaac agaaaattca tggatccatcc ttgttctac acctgtgggt tatgacaag 300  
acaactgcca aagaatcttc aagaaggagg actgcaagta tattcgtgggt gagaagaagg 360  
acccaaaaaa gacctgttct gtcagtgaat ggataatcta atgtgcttct agtaggcaca 420  
gggctcccaag gccaggcctc attctccctt ggcctctaatt agtcaatgat tggatccca 480  
tgcctatcag taaaaagatt tttagccaaa maaaaaaaaa aaaaaaaaaa aaaaaaaaaa 540  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa angggnggcc gctctag 597

<210> 88

<211> 474

<212> DNA

<213> Homo sapiens

<400> 88

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cctgttaggcc tttgactcct gactcacct gtctgcagtg tccccccagcc tgcaggggtg 120  
ggtgwgtcac agcaaccctc agccaccagc tgttttccat ctgcggcct tcctggggga 180  
gagtccttc cagctgtac ccctgtctat gggaaaagtc tcatgtcctt ttcatctc 240

cccaactgcac actgtctctc accctagact ataattcaag tgaatttgc ctccatattat 300  
tggacaagcc aggsactgtg ctaggrataa tgwaaaccat tagacaaatc tgaaagggag 360  
ggatcactag actaagggtt agaaatgtgg agatgggagt aactttctgc atgtcttg 420  
aggaggtggc atgtgagaaa gcttttggta agaggtggca cctggagctg tgga 474

<210> 89

<211> 1537

<212> DNA

<213> Homo sapiens

<400> 89

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acgacccttt atattgttag agtgttcaca atttcacttt accctcctgg gccactgagg 180  
acaccatgac taagttgaga gaattgtcag aattgtccct cctgtccctc tatgaaattc 240  
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acatgaagag agcaactcag ataccaagct acaaaaaact tatcatgtat tctgcgcatt 360  
acactactgt gagtggccca cagatggcgc tagatgttta caacggactc cttccctccct 420  
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ctcttgaagt atatatatca tagcaaataa gtcatctgtat gagaacaagc tatttggca 1440  
caacacatca gggaaagagag cmccacgtga wggagttttt ctagaagcty cagtgataag 1500  
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<210> 90

<211> 304

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (292)

<223> n equals a,t,g, or c

<400> 90

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tggtgcccgg gctggatgg aactcctgtg cttaagcggt cctcatgcct cggtccca 120  
aagtgcgtgag gttgcagcta tgagccaccc caccaggcct acattccccc ttatcaccga 180  
gaaacaggtt gatcttcaca ggtgtaatga gtatgaaggg agtgcctaaa agatattttt 240  
tatTTTTAT ttatTTTT tttaatttaa tttttttt tttggatgg gngtcttgct 300  
ctgg 304

<210> 91

<211> 369

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<400> 91

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tccttccacc tcattctccc caagaactgg gattacaggc atgagcaact gcacctggc 120  
catatgcctc ttatagttga agaagtgaag ggtcaatgac tttactaaaa tactattaaa 180  
gtaataaaagc taggacttag ccccaattat tcatccttaa agtccaatac tttcaatata 240  
ttaagttgtc ctttattata tgaattctaa atatctttt tacctttgt tatctaattct 300  
ggaaatccta tataaatgtt taattttata catgtgact gatatccyct ctatgttgc 360  
tatactagg 369

<210> 92

<211> 315

<212> DNA

<213> Homo sapiens

<400> 92

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agggctctct ataaatatat acatTTGtaa cttctgttta atataaataa atcattcttc 120  
atagcaagga ttctggcattc agttggagat tcttggatg gatgtgctcc catggagttt 180  
ctatTTTAAgtactaacaa cttatgactc gtctatctgt agtataattt atatccacta 240  
tcacagtaac agtcaccact taatatgyat agratatctc attttaccaa gcaattatgg 300  
tatctctgtat ttata 315

<210> 93

<211> 701

<212> DNA

<213> Homo sapiens

<400> 93

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aatgtcaaaa atgactcacc tttaaaaat tatgcataaa aacagggtgg aaacattcag 120  
taatacgtca tttctccaac atcaagacaa ctaaaacaaa tgataaaaat gttttttttt 180

acactccagc atatcggtg agtttaggg atgttatga atatttaat ctttaattt 240  
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attrcatatt aattttagaaa attcctgtgt ttacttataat tttaaattgt gaaatggatc 480  
caatcattag aacagagaga atagttctt gaaactgaaa tactttagt ttactgacct 540  
tgtgttaaga taatatgaag aaccagcttc caaaagaaac cagcatatgg cactataaac 600  
tatttcattt gagcaccattt ctttaccatg gatataattt ttatgttatta tagtgagtg 660  
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<210> 94

<211> 459

<212> DNA

<213> Homo sapiens

<400> 94

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aaaaataaaaa ctgggttttgc tcctaaatat ccttgcgtgg cctattatac ataaaaaaaaag 180  
gggccacagc ccatttgcaa ggcttctgaa tgaactccat tcattctgtt cttggaaatg 240  
tctcttcagc cacaaaaaaga acaatagttttaa acatcttattt tctttgggtgc catatcagca 300  
gaagaagagc caagagacca ttatgaaaac tcttagtaagt tctcttgggtg attatataat 360  
gtgtawtca ttgatcatat tkctgttattt aaataagtac attttttaaa acatcataaaa 420  
gtggatcagt aatgctgtaa tatcacattt catgtttaa 459

<210> 95

<211> 2589

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1056)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2568)

<223> n equals a,t,g, or c

<400> 95

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gaagaagcga gtcagtggcc cggtcaacct gctctgcgc tgctataaat agcctccctg 180  
tttccaagag gaggttaagga agtgtttatc ttctaaaaac cagacgttcc ctgtatgtct 240  
gagcggtact cagtactaca gaggagatgc acacgtcccc actatgttct gtcttgagaa 300  
ggggacaaga gaaagaggaa aaggagccac tgcgtaccc tttgcaccta cagcgtgcct 360  
tggcactggc ctagagaggc accttcctgc gtgaatccctg tgccggcaggcttattgcca 420  
taataagtca catcaaagac actgctggtc ataaaacact gttttacata ccataggaa 480  
aaacgctgcc aatcttaact aagatgctac aactgtacag ttccctccaa tcagagatgt 540  
tcacgtgtga aaaaaaaaaact gtgctactta caatctatga aagctggtrt tatcccactt 600

ggcaggttaag ggaactgagg tcctgtgagt gaagtgacct catgatcaca caacaggaga 660  
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tggtcatcgc tgaatccctt tttgcatcat gtttttgat gttggagtgt tgaagtgtac 2280  
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aggaaatc 2589

<210> 96  
<211> 457  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (372)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (384)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (442)  
<223> n equals a,t,g, or c

<400> 96  
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ggggctgttg gwgactctgc ctacagcacg gggcrtgtgt ccaggctgar cccgctgagc 180  
gtcgacacag tcgctgttgg cctgggtgtcc agcgtgggtg tctatcccgt ctacctggcc 240  
atsctcttc tcttcyggat gtcccgagc aagtttatca atactctggc tgaccatcgt 300  
catcgtrggga ctgactttgg tggaaagtccct tggttactta tcattaaactg tgtttctgag 360  
aagttataaa tntggcatct cctnctgcac aacttacctt tgggttataaa taatctggtag 420  
accatcgta cggtggactg antttggggg aagcctt 457

<210> 97  
<211> 516  
<212> DNA  
<213> Homo sapiens

<400> 97  
agctcccacc agcctccctt ttatTTTTTt gtacagatgg ggtcttgcta tggccccaa 60  
gctgggttta aactcttggc ctcaagcaat ctttcgtcct tggccccccaa aagtgtggg 120  
atttgtggca tgagctgtg tgcccgagcct ccatgtttta atatcaactc tcactcctga 180  
attcagttgc tttggccaag ataggagttc tctgatgcag aaattattgg gctcttttag 240  
ggtaagaagt ttgtgtctt gtctggccac atcttgacta ggtattgtct actctgaaga 300  
cctttaatgg cttccctttt tcatctcctg agtatgtAAC ttgcaatggg cagctatcca 360  
gtgacttgtt ctgagtaagt gtgttcatta atgtttattt agctctgaag caagagtgtat 420  
atactccagg acttagaata gtgcctaaag tgctgcagcc aaagacagag cggaactatg 480  
amaagctctc ctgccatctc caagcccact tttcag 516

<210> 98  
<211> 314  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (263)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (271)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (299)  
<223> n equals a,t,g, or c

<400> 98

ggagaccgcg cgccggacgg ggaggaatgg cctgtccgcg ttaaaccatc acaagccatg 60  
gttgcggaag ggcacgcgt cccccagtag gagaatgact ccgattcggt accctcagcg 120  
ccgggtgcgt tcgatcttg cccccaggc tgtgtatgcag ccagccagt ctcaggaga 180  
ggaaaccagg aagcctggca tgctggccaa aggagtcaag gaaactttt agctatttac 240  
agctttagc aattatgtaa agnatactcc nctgaacaaa atttggagca tgtttgtnc 300  
tctctacctg attt 314

<210> 99  
<211> 679  
<212> DNA  
<213> Homo sapiens

<400> 99  
agttgttccg tgtaggctgt tggtgactct cgtatgaaag cccacgcgt ccaagtgcc 60  
tgcagggttt ggtccaggga aaagttggtc tctgcagatg actgtaaatg actacctgga 120  
ggtcgattaa agtgcgtac tgccggattc arccgatttc cttcttcctc tgactgccc 180  
gaaatatccg ccaaaggcca gcgttctaag gacatatgga attggctatg gataattcat 240  
atgcttcaa tcaacgaagc acatgtaatg gaattccatc tgagaagaaa aacaacttcc 300  
ttgtatcaga agatcatgga caaaaaatct taagtgtact acagaatttt agagaacaaa 360  
atgtcttta tgatttcaaa ataattatga aagatgaaat aatcccggt catcgttg 420  
tgtagcagc atgcagtgc ttttcaggg ctatgttga agtaaacatg aaagaaagag 480  
atgatgaaag tgtagcatt actaatttgc ctcggccatc agtggccatc ttctcgatt 540  
atgcctatac tggaaaaaca aaaataacag atgataatgt gaaatgttc ttccagttgt 600  
catcatttct tcaagttcc ttccatca aagcttgcag tgactttta ataaaaagta 660  
ttaatcttga aaaaaaaaaa 679

<210> 100  
<211> 599  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (583)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (584)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (599)  
<223> n equals a,t,g, or c

<400> 100  
aattcggcac gagtctcacc cctcgagac gctcgcccg aagcatagta cttgccccc 60  
agccacgccc gcgcgcacc accatgctag gtaacaagcg actggggctg tccggactga 120  
ccctcgccct gtccctgctc gtgtgcctgg gtgcgtggc cgaggcgtac ccctccragc 180  
cgacaaaccc gggcgaggac gcaccagsggg agggacatgg ccagatacta ctcrgcgctg 240

cgacactaca tcaacctcat caccaggcag agatatggaa aacgatcyag cccagagaca 300  
ctgatttcag acctcttgcat gagagaaaagc acagaaaaatg ttcccagaac tcggcttgaa 360  
gaccctgcaa tgtgtgtatg ggaaatgaga ctgtctcttgc tgcctttcc tattttcagc 420  
ccatatttca tcgtgtaaaaa cgagaatcca cccatcctac caatgcatac agccactgtg 480  
ctgaattctg caatgttttc ctttgtcatc attgtatata tgtgtgttta aataaagtat 540  
catgcattca aaaaaaaaaa aaaaaaaaaa acnngggggg gggccccgn 599

<210> 101  
<211> 1189  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (232)  
<223> n equals a,t,g, or c

<400> 101  
gggggcgggaa aggctgtacc gccatgcaca agctcttga ctgggccaat accagccggc 60  
gcgggaggag ataaagcaagg acctcagac cacactgaac gccttcctgt accacatggg 120  
ccaacacacgc aacaaattca tgctggtcct ggccagcaat ctgcctgagc agttcgactg 180  
tgccatcaac agccgcatttgc acgtgtatgtt ccacttcgac ctgcccgcgc angaggagcg 240  
ggagcgcctg gtgagactgc attttgcacaa ctgtgttctt aagccggcca cagaaggaaa 300  
acggcgcctg aagctggccc agtttgcacta cgggaggaag tgctcgagg tcgctcggt 360  
gacggaggcgc atgtcgggcc gggagatcgc tcagctggcc gtgtcctggc aggccacggc 420  
atatgcctcc aaggacgggg tcctcactga ggccatgtatg gacgcctgtg tgcaagatgc 480  
tgtccagcag taccgacaga agatgcgtgc gctgaaggcg gaggggcctg ggcgcgggg 540  
cgagcaccccc ctatccggag tccaaggcga gaccctcacc tcatggagcc tggccacggc 600  
ccccctctac ccctgccttg ccggcccttg cacatttagg atatgcctctt ggatggggac 660  
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cccccccaaggc caccctctgt ttaggcact ggctaggag gggcaggcct cttcttgcc 780  
cctcgagaca ctcttggag atgcattttc cgtctggctc acagggggag ggtgaggctt 840  
tgtaccccaag cccctgcccc ggcactgtg agggtgggtg ctggctgagc ccctggggca 900  
gaaggagtgg ggcaggcggg gtcttgc tggctccca cagcagagcc aggtgagggg 960  
gggcctgcca ggactagaca gaagtggggc ggcctgaacc ctgcttccag ccatggccag 1020  
gggcacggc accccggcagg ggtgtctgag gcccctgt cagctggccg gtccaaagcct 1080  
gtggctggag ctgtgtgtg ttatctaataa aagtcac aggtgcctca aaaaaaaaaa 1140  
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1189

<210> 102  
<211> 251  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (42)  
<223> n equals a,t,g, or c

<400> 102  
gccaatttga tgaagtgcaa agttcaggcc ggtatgattt tnagtgtctg caaagataaa 60

agcttcgatg atgaagaatc agtggatgga aataaggccat catcagctgc atcagccttc 120  
aaggttcctg cactaaaaca tccggaaatc ctgccaacag tgcaaggaag ctggttcagc 180  
aggtggccct aaggttkgag gttstaaatc cattcaatc tgttatgctg gtccatggcc 240  
ttgatattgg c 251

<210> 103

<211> 458

<212> DNA

<213> Homo sapiens

<400> 103

gggaggcttt ctgaattatg gggcaacat gggagactg ggcttctgt ggaccatgac 60  
agctccgcag ccgtgctggg ctcctcagct ccactgtcag ggcttaggaat tggccacaga 120  
acccccagag ccaaccctgg gggccactag gaccccaaac acctgtgtt tcattctgcg 180  
tggcctcctg gttccctgga gttcttttt atgctgcctc tggtgtgagg tcctcagcat 240  
ttaatttgtt ctaagttaa aagctgcaag agaaaaacag aacccccc 300  
cacagctgt gcggctgatc agagatacga ccccaagagga ccacgtccac cargggccgg 360  
atggacagcc acctattttg tamtccttgc ttcaaaagca acaatagcaa ataacattcc 420  
aaaagtctta tgcataact tcaagacact aggattta 458

<210> 104

<211> 439

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (402)

<223> n equals a,t,g, or c

<400> 104

tgtgtgtccg cgcaaggcgag caccgcgcgg gccctgagcc tcccgctcgc tccccacggc 60  
cgcggtgcattt gttcgctcc tgccactgtg tgccgagagg caggaggacc atgaaaatgaa 120  
tccacttgcg gagctccagc gtcaratcgc tcagccggag atgagatgca ccatccggct 180  
gctggacgac tcggagatct cctgccacat ccagaggaa accaaaggc agtttctcat 240  
tgaccacatc tgcaactact acagcctgt ggagaaggac tactttggca ttgcgtatgt 300  
ggacccagag aagcaaaggc actgggcttg aacctaacaatcgtt gtcctatcc aagcaaatgn 360  
aaactcatcc accatacacc atgtgcttta gatgtgatattt anccacatgaa acccttgaag 420  
attaaagaag actcacaag 439

<210> 105

<211> 233

<212> DNA

<213> Homo sapiens

<400> 105

tcccaaagtg tggggattat aggcatgagc cactatgccc agcctacttt tgttttaag 60  
aaattgaaac gatatagaaa agtacaaaga acaacctaatacattttat catatttgct tcagatctt tttttttta 120  
ctcagaatta tcaactttt atcattttat catatttgct tcagatctt tttttttta 180  
aagaaaagta taacagattt agctaaagta cccttgacc aataccccac ccc 233

<210> 106

<211> 704

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (704)

<223> n equals a,t,g, or c

<400> 106

ggcagcggtg gccaggcct cttggttctg cggcacgtga cggtcggccc gcctccgcct 60  
ctctctttac tgccgcgcgg ggcaagggtgt gcgggcggga aggggcacgg gcaccccccgc 120  
ggtccycggg aggttagaga tcatggaaagg gaagtggttg ctgtgtatgt tactggtgct 180  
tggaaactgct atttgtgagg ctcatgatgg acatgatgat gatgtgattt atattgagga 240  
tgaccttgac gatgtcattt aagaggtaga agactcaaaa ccagatacca ctgctccctcc 300  
ttcatctccc aaggttactt acaaagctcc agttccaaca ggggaagtat attttgctga 360  
ttcttttgac agaggaactc tgtcagggtt gattttatcc aaagccaaga aagacgataac 420  
cgatgatgaa attgccaaat atgatggaaa gtgggaggta gaggaaatga aggagtcaaa 480  
gcttccaggt gataaaggac ttgtgttgcgttgcgttgc aagcatcatg ccattctgc 540  
taaactgaac aagcccttcc tggttgacac caagcctctc attgktcagt atgaggktaa 600  
tttccaaaaat ggaatagaat gtggtggtgc ctatgtgaaa ctgctttcta aaacaccaga 660  
actyaamctg gatmakgtts agaggactat aaactgcctt catn 704

<210> 107

<211> 445

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (426)

<223> n equals a,t,g, or c

<400> 107

ggaatacccc ctcacttctg tggcttcttt cctgttagtag acgatcaagg gtggaatcta 60  
cagtcctatgg gccctgactt cttgccttcg tctcaaatacg actctgcagc cagccatcta 120  
tgcagcgccc cagtggcttt gaaatgcaac agaaaccatc accccccggac catgggctcc 180  
atgccatgg gcaaaaggcaca ggtgcgttca ctgagttccc agcacatagc tgtggcaggc 240  
acttggtgat attttggaaat aaaagaatgg aagaatgtgt ccaagctgtg ctcccccttt 300  
ctaccttact cagggacatg gtgcctctc ctctggtttc ctgcctgtg ccaccccccc 360  
sccccctgcaa gcacagytct tatgtgcaaa gcccctgtaa gtgctggagg gattactgt 420  
ggcttngggg aagtggcaat gggat 445

<210> 108

<211> 592

<212> DNA

<213> Homo sapiens

<400> 108

acaaaactg cacaagata gaaacagggc cttctgtgct ccttgagctt cacgtgttaa 60  
cctggctccc cagaccaaag accaacaccc cagggtgagt tcatcctctg ccaacagcaa 120  
tcttcctt cctctgaggc cagccatccc catcccagga ggcaggggaa gcaagcccg 180  
ggagggcagg agagctcca gtcagtgaa gcagctccac cggccccgaa gcacctccct 240  
tgctcacage tcrgasccc gcttctccct gctgcmaagr taactgcagc yttcagactg 300  
acttccatgc ccctcttagct agggscatc acttcaagtt caggcgccaa aaaccaagaa 360  
agtaaatcac acttcataga cttaattttac cttaaaaaat tcctgagttc attcatgtct 420  
ccaaaccact agagaacctg aaaattcacc aggaaattgg gcaactgcaa gttatcctgg 480  
agactccaga gtcaacactt cattaaatga gaacaatctg gttcatgcgt tgaagctgtt 540  
acagtaatca gggcgacatg ggcaggggaa gcgattttc tgaagctgtg cc 592

<210> 109

<211> 381

<212> DNA

<213> Homo sapiens

<400> 109

tcaccttgc gagaagaaag tcaacagata atttctaaat tggaaaatca ggaaattaca 60  
gtcattataa gagatatatg gggaggatataaataaccaga ataaaaagat aaaagagatg 120  
aaaatagtag tctctgggaa gctaaagtct aaaataaaaa ggtgtgaggc agaccttata 180  
tactacttaa ctgtataact atttatagcc cagtattctg ttttctagac ctgtccaggt 240  
gttaagggat ccaatctatg aaccagcaga gaccaatga ctaaagmcaa actttgctgc 300  
acactgaaaat caccctgggg aatctttaa aaagtactga cgcctgactc ccaccacaa 360  
acagtctgat ttaattggc a 381

<210> 110

<211> 351

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (253)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (322)

<223> n equals a,t,g, or c

<400> 110

ctgtccctgc actccgtggc ggaaggcggt tagagcggtt ccctctgagc tctccgagag 60  
attggtcggg acctgaagcg ttgaggttaa gggcaaggca aggagcaacg aggagtttt 120  
cgttacgtta gaaaaatttc gttgcgtgt gaaagcgctt ttacctgtgt tttatgattt 180  
aaccttatga aaatggacag ttttccagt ttacaatgtt agggaaagaag attaagaaac 240  
ttgcctccgc cangcgtggt gttcactcc ctgtaatccc agcactttcg gcccggaaag 300  
caagcgatc acttgaggtc angagttcga agaccagcct gggccaaaca t 351

<210> 111  
<211> 1583  
<212> DNA  
<213> Homo sapiens

<400> 111  
gggggcgcga ggagatgacg gccggcgccc aggccgaggc cgagggcgct ggcggggagc 60  
ccggcgccgc gcggctgccc tcgcgggtgg cccggctgct gtccggcgctc ttctacggga 120  
cctgctcctt cctcatcgta cttgtcaaca aggcgctgct gaccacactac ggtttccgt 180  
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gcctaccgat gttcaccgtt ctcaggaaat tcaccattcc acttacctta ctcttgaaa 420  
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caaaggagct agggaaatac ggagtacttt tctacaatgc ctgcttcattt attatccaa 660  
ctcttattat tagtgtctcc actggagacc tgcaacaggc tactgaattt aaccaatgga 720  
agaatgttgtt gtttataccta cagtttcttc ttccctgttt ttgggggttt ctgctgttgt 780  
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aaaaaaaaaaaa aaaaaaaaaactc tga 1583

<210> 112  
<211> 431  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (388)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (408)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (422)  
<223> n equals a,t,g, or c

<400> 112  
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agggaaagt tccaaagctttt aggaagaatt attttttttc aagacgctgt cttccgtact 120  
ttcggttatta aacatacggc tcaagtgtac accgtatag acagtgcacat cagacatctt 180  
tcatttagccc tactcaaaaa tggcggcaac gtaatatcct gggccggagt cggttgtaac 240  
ccggaaagtgc ctttgtaaag gaggggtgg tagacaatcc ggaartggat ggaatgaaga 300  
gatgccactt ggccggcccat ggcagctgtt agtacggcg actccgggtm aaggccccgt 360  
csagttgcatttaccatgggg cagcacccngg ttttagggc agggacanttttgttgc 420  
antttgttgc g 431

<210> 113  
<211> 2842  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (2040)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2603)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2656)  
<223> n equals a,t,g, or c

<400> 113  
ggtgactcg gagtccgcga gcgtcgctgg caagcggccg ctttccacg gtactccgag 60  
caactatgtcg tccccggcgt cgaccccgag ccgcggcggc agccggcgtg gaagggccac 120  
ccccggccag acgcctcgga gtgaggatgc caggtcatct ccctctcaga gacgttagagg 180  
cgaggatcc acctccacgg gggagttgca gccgatgcca acctcgccctg gagtggacct 240  
gcagagccct gctgcgcagr rcgtgctgtt ttccagccct ccccaaatgc attcttcagc 300  
tatccctctt gactttgatg ttagttcacc actgacatac ggcactccca gctctcggt 360  
agagggaaacc ccaagaagtg gtgttagggg cacacctgtg agacagaggc ctgaccctggg 420  
ctctgcacag aaggccctgc aagtggatct gcagtctgac ggggcagcag cagaagatata 480  
agtggcaagt gagcagtctc taggcacaaa acttggatc tggggaaacag atgtaaatgt 540  
ggcagcatgc aaagaaaact ttcaagagatt tcttcagcgt ttatttgacc ctctggctaa 600  
agaagaagaa aatgttggca tagatattac tgaacctcta tacatgcaac gacttggga 660  
gattaatgtt attggtgagc catttttaaa tgtgaactgt gaacacatca aatcatttga 720  
caaaaatgg tacagacaac tcatctctta cccacaggaa gttattccaa cttttgacat 780  
ggctgtcaat gaaatcttct ttgaccgtta ccctgactca atcttagaaac atcagattca 840  
agtaagacca ttcaacgcatttca gaaatgaga aacctgaatc cagaagacat 900  
tgaccagctc atcaccatca gccggcatggt gatcaggaca tcccagctga ttcccgagat 960

gcaggaggcc ttcttccagt gccaagtgtg tgcccacacg acccgggtgg agatggaccg 1020  
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 aattttgctt cagctcttg gcgggacaag gaaggattt agtcacactg gaaggggcaa 1560  
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 aataccagca acttttgaa gatattcgg gacaatctga catagcaatt actaaagata 2580  
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 ccstgcgtt gctctngaaag ccttgtgagc aaggaaggct ccctgcatgt cctgcttgct 2700  
 gcacgcccaca tgggtgtggt ctgcatctca gttggccgccc atcagtgtaa atagagctta 2760  
 aagtcatggt ttggctgcat aaaaatttc taacttgggt tcaatattt tagtgaagta 2820  
 tctgtttca ttttttcac gt 2842

<210> 114  
 <211> 268  
 <212> DNA  
 <213> Homo sapiens

<400> 114  
 attttgcgtc tgggtgggttgg ggcctacagca ggcctctggaa gccacaccag ggcacgggag 60  
 tgggtgcagg gaccgtcacc gcgccttcac acgcaccata gtgcggctt aattactctg 120  
 cttttatgag ccaaggtgtt cccgaaagtgc garccagcgc cacgcgtctc yaaggtctcc 180  
 atacccagcc ttgtccctg cgggtgccc aagccttgcg cgcatttgc atttgggaaa 240  
 aaaagtccgt aatgcgaacg tcacccca 268

<210> 115  
 <211> 800  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc feature  
<222> (673)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (794)  
<223> n equals a,t,g, or c

<400> 115  
gcgtcggggc ttcggaggcg tgcgggcttc ggagggcgtgc gggcttcgga ggcgwgcggg 60  
cttcggaggc gtgcgggctt cgggtgccat gggactcct cccggcctgc agaccgactg 120  
cgaggcgcgtg ctcaagccgtc tccaggagac ggacagtgtc cgcttcgagg acttcacgga 180  
gctctggaga aacatgaagt tcgggactat cttctgtggc agaatgagaa atttagaaaa 240  
gaacatgtt acaaaaagaag ctttagctt ggcttggcga tattttttac ctccatacac 300  
cttccagatc agagttggtg ctttgtatct gctatatggta ttatataata cccaactgtg 360  
tcaacccaaa caaaagatca gagttgcctt gaaggattgg gatgaagttt taaaatttca 420  
gcaagattta gtaaatgcac agcatttga tgcagcttat attttttagga agctacgact 480  
agacagagca tttcacttta cagcaatgcc caaattgtcg tcataatagga tgaagaaaaa 540  
aattcaccga gctgaagttt cagaagaatt taaggacca agtgatcggt tgatgaaaact 600  
tatcacttct gatgkatttar aggaaatgct gaatggcat gatcatttac agaacatgaa 660  
catgttaatttca agntgataaaa gtccaagcca gataaggcct taacttgata aaggatgatt 720  
ttttgacaa tattaagaac atagtttgg agcatcagca gtggcccaaa gaccgaagaa 780  
tccatcctta aggncaaaac 800

<210> 116  
<211> 646  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (556)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (592)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (615)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (645)  
<223> n equals a,t,g, or c

<400> 116

aacaaaggca ttgccatcta caagaaggat ttcttcctgg tgcagaagct ggtgagctgg 60  
gctctgttcc agggcaaatg agggccagga gctgcctgtg tgactttggg gctccctctg 120  
ccagtgacca atccctctta aaaagcagtc aggtcaatgc tactgagtag cctcagagag 180  
aatttcctaa acaataacaag aaagagaaaag ataggtctct tttccctttt ggttctaagc 240  
atcccttcct cacttcaggg tagggtggcc aagctctggg gtctcaatcc agaaggagggc 300  
ctaagtgggc atcagactta aaataggcag gaggaagatg cgaggaggagg tggcaaktag 360  
aggtgagcca ttccccagag gaagatgcag ggggaggggca ccctgggggtg aaggccactg 420  
agagccagca agtgcctgcg qactgacctg ggggcctctg cccacttcct ttgaccaga 480  
gttgcctcc agtaactcag ctgttcaagc ccacattccc taagatttat ctgtcctct 540  
ctcccatatt ctctngaa aagcagatgc tttgctaattc ccaaggaatt gnatttttc 600  
cagccctgtt ttcanaaaat ctggggcttt gggaaaaaaa aatnt 646

<210> 117

<211> 1534

<212> DNA

<213> Homo sapiens

<400> 117

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attcctgtgg taatccttac cgtggcgagt tccgcgtca atggagacgt ttgacccac 120  
cgagctgccc gagctgctta aactttatta ccggaggctc tttccctact ctcagttacta 180  
tcgctggctc aactacggtg gagtgataaa gaattacttt caacaccgtg aattttcatt 240  
cacattgaaa gatgatattt acattcgcta ccaatccttc aacaaccaga gtgatctgga 300  
aaaggagatg cagaaaaatga atccatacaa gattgatata ggcgcagtat attctcacag 360  
acccaatcaa cacaatacag tgaagctggg agcttccag gctcaggaaa aagaactgg 420  
atttgacatt gacatgacag actatgacga tgtgaggaga tttgttagtt ctgcagacat 480  
atgtcctaag tgctggaccc tcattgacaat ggccatacgc atcattgaca gagcattgaa 540  
ggaggacttt ggatttaagc atcgtctctg ggtatattct ggaaggagag gtgttcattt 600  
ttgggtctgt gatgaatcag ttagaaactg tcttctgcar tacgttccygg gatagttgag 660  
tatttgagcc ttgttaaaggg tggtaaagac gttaaaaaaga aagttcacct aagtaaaaaa 720  
attcaccctt ttatcagaaa atctataaac ataataaaaa aataacttta agaatatgc 780  
ttggtaatc aagatattct cgaaaataaa gaaagctggg ataagattt agcccttgc 840  
ctgaaacaat tcattgatgaa cttcaacaaa gcttccaaaa gtctcacaat tcacttcagc 900  
gttggagca cttgaagaaa gtagccagca gataatcagaa taacatcaaa aatgacaaat 960  
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cgaccataag cttcatctgc cgtgaattgg atgcatttc cactaatgaa gaggaaaaag 1200  
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attgtggata tcttctgcct tcaaccacag atcaaataact tcaagagcca tttataaaat 1440  
atggcagaac tatatatgtg tcttaaacct caaagtaaaat tttcccttgag aaataaaaaaa 1500  
aaaaaaaaaaa aaaaaaagtgc agacttagttc tctc 1534

<210> 118

<211> 339

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature  
<222> (155)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (307)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (333)  
<223> n equals a,t,g, or c

<400> 118  
tagatgaaga taatgaaaaa gaaaaaaaggg actctttagg caatgaagaa tctgttgata 60  
aaacacgcattg tgaatgtgta aggagtccaa gggagtcttt ggatgacacctg tttcaaatat 120  
gttctccatg cgccattgca agtggtccttc ggaanacctg gctgaattga caacattatg 180  
tttggagttt aatgtattga attctaagat caaaagcacc agtgggracat gtgggaccac 240  
actttgccaa cagtaactct cctgaaaattc tggcttgcc atttccctga aagaagtact 300  
tttttcntcc ggaacttgga aaagagcgaa ggnagagta 339

<210> 119  
<211> 665  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (616)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (656)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (665)  
<223> n equals a,t,g, or c

<400> 119  
aaagagtgct cctagttgta acagaaaactg tcgatgcagg tttatttgga gaaggaattt 60  
tggagagttt gattcatgca tgggagcatt tacttttaca gccaaagacc aaaggtgaaa 120  
gtgctaattt tgaaaaagtat gggaaagttt taccagcaag tgctgttata tttggatgg 180  
cagtagaaatg tgcagagata agaagacatc atagagtggg tattaaggac attgctggta 240  
tccatggcc aacaaaatgtt aaatttcaga gtccggctt ttcttctgta gatactgaag 300  
aaacaatgtt accttataaca actgaaaaga tgagtcgagt tcctggmrrr tattttggctt 360  
tgacagagtg ctggaaattt atgasagtagt atttcaacaa ycttcaggaa ttaaaaaagtc 420  
ttgcaactaa raarccttgtt aaaatttggtt ttccctgttat taaagaaggc atattagatg 480

ctgttgttgtt ttgggttgta ctccagctt atgatgaaca tagtttatcc acaagtcccta 540  
atgagggaaac atgttgggaa caagctgtct accctgtaca tgaccttgc gactaccgga 600  
taaaaacgtgg ggaccngtga tcatggaaatg tcttgtccaa gattgttact taagantcca 660  
gaatn 665

<210> 120

<211> 622

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (544)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (577)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (603)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (614)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (620)

<223> n equals a,t,g, or c

<400> 120

gaggggctgcg ggagggcggga ggaaaaagtg gggccgggcc tgagttgggc tgacctgtga 60  
aagtctggga aggtctgcga qagaagcgga gtgtttcag ctccggaaagt ggcagttgt 120  
aacttcacct cccggggct cttcccccttc tgtacccctt tgctgtttgt cccccccttc 180  
ccgggtcctg gagtccgtcg tggccaaaca gttttgtctt tattccctgt gggctgctgg 240  
gcctcccttcc acccgtgaga cttggarcgg ccctggggtc ttgggtgtca agcacggatc 300  
acgcgagacc cctgagacct caaatcatct aacgtgaagc cacagacate ttggcaattt 360  
taatcatcaa gaaagaaata tgtcattaag aaatagcagg gtatttgaa agaagttgga 420  
aaacatcatg aatttgaata cttaagtaa tactggtgat acccaaagggt tgaagattgc 480  
ctcattggat gtaaaaacaaa tactaaaaaa tgaaacagag ttggatattt ctggataatc 540  
tcangaagaa actccattgg gctaaaaaaaaaaag aaaagtntga aataccacca accccatgga 600  
aancttgcaaa gctntgaagn ca 622

<210> 121

<211> 889

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (817)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (830)

<223> n equals a,t,g, or c

<400> 121

ggctgaagcc atccccttgg ctgatcagcc acatctgtt cagccaaatg ctagaaaagga 60  
ggatctttt ggccgtccaa gtcagggtct ttattcttca tctgccagta gtgggaaatg 120  
tttaatggag gttacagtgg atagaaactg ccttagagggtt cttccaacaa aaatgtctta 180  
tgctgccaat ctgaaaaatg taatgaacat gcaaaaccgg caaaaaaaaaaag aaggggaaaga 240  
acagcccgtg ctgccagaag aaactgagag ttcaaaacca gggccatctg ctcatgatct 300  
tgctgcacaa ttaaaaagta gcttaactgc agaaatagga cttactgaaa gtgaagggcc 360  
acctctcaca tcttcaggc cacagtgttag ctatggga atggttattt cccatgatat 420  
gctgctagga cggtggcgcc tttctttaga actttcggc agggtattca tggaagatgt 480  
tggagcagaa cctggatcaa tcctaactga attgggttgt tttgaggtaa aagaatcaaa 540  
atccgcaga gaaatggaaa aactgagaaa ccagcagtca agagatttgt cactagaggt 600  
tgatcgggat cgagatcttc tcatcagca gactatgagg cagcttaaca atcacttgg 660  
tcgaagatgt gcttaactac caatggctgt acacagagta aaagtccat ttaaggatga 720  
gccaggarar ggcagtggtg tagcacgaag ttttataca gccattgcmc aagcattttt 780  
atcaaatgaa aaattgccma atctagagtg tatcccnaaa aaaaaatttn ggccccccca 840  
aaaacccaaa aaaaaggggc caaccccaa ccaccaaagg gtttttaa 889

<210> 122

<211> 132

<212> DNA

<213> Homo sapiens

<400> 122

cttgagccccc tgagttgtgg gggtagggtg aagagcataat cccacaagag gccccacagg 60  
gagcagagac tgcttaatc cctgctgaca tcacggaaaa gcaacagagc cttttcaact 120  
ttgtcactat gt 132

<210> 123

<211> 1900

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1879)

<223> n equals a,t,g, or c

<400> 123

gcggacgcnt gggaaacagc cgattggaga cgggagccaa ccagggctgc attggaggtt 60  
gaaatcacaa agattagaca ctttttaga tagtgttct tcagcacac tgacaacacg 120  
gttctgacag tatttcatga caatggatgg tgacagtct acaacagatg cttctaact 180  
aggaatctct gcagactata ttggaggaag tcattatgtt atacagcctc atgatgatac 240  
tgaggacagc atgaatgatc atgaagacac aaatggttca aaagaaaagg tcagagaaca 300  
agatatatat ctccaatag caaacgtggc taggataatg aaaaatgcca tacctcaaac 360  
gggaaagatt gcaaaagatg ccaaagaatg tgttcaagaa tgtgttaatg agttcatcag 420  
ttttataaca tctgaagcaa gtgaaaggtg ccatcaagag aaacggaaaa caatcaatgg 480  
agaagatatt ctctttgcta tgtctactt aggcttgac agttatgtgg aacctctgaa 540  
attatacctt cagaaattca gagaggctat gaaaggagaa aagggaaattt gtggagcagt 600  
cacagctaca gatggactaa gtgaagagct tacagaggag gcatttacta accagttacc 660  
agctggctta ataaccacag acggtaacaaca acaaaaatgtt atggtttaca caacatcata 720  
tcaacagatt tctgggttca agcaaattca gtttcatga tctgaagaaa tgatgaaatg 780  
gggagtgttag agaaatgaga gtctgtatga ttcttggaca gagacatcag aaggaaagac 840  
tggtaaaaag atgtatctt gtatattaat agctgtatg tagtttcctg atgcttgact 900  
aattgaggtg ttaattctga cttgagaatc ttttcatga atgatttaa agaaaaattt 960  
ggatttaaa ggtattaaaa tatttttgtt ttgtacgaga gtttgggtct ctgtatgact 1020  
cctgtatgca ttgtatattt caatttatta ctgtcagaga tttgttagaca gtttcttatt 1080  
ttcatatgtt atcatgttac tttttaattt caagtaagcg gctgggttaa ttcatgtatg 1140  
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ctgtatttat taaaatttattt attttttttgg taaaacatta atagtttaag cagcatcatt 1320  
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aacttggtgc ccattaacag ttttacact gttcatcggt cctgttaatg tagtttttagt 1440  
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atatttaagt ttaatgtatg ccttagtgc ttgaaatggt gccccttca tttggatcat 1560  
gatttttttt caaatcatat cttcaagtac tatagtattt tcttacagaa gaggagttt 1620  
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acactatgga aaccaagaaa catcagacat cattgcgtgt acagaccttt tgcatgggtg 1740  
agtggatgaa atggagaaca gagtgagtgca tgtgaacggc gtgaaataga agccaacttc 1800  
tagtatgttgc tcttcatttgc tgcaataaac taaacgtaaa taawrwaaaa aaaaaaaaaaa 1860  
aaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa 1900

<210> 124

<211> 1250

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (874)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1169)

<223> n equals a,t,g, or c

<400> 124  
ggcacgagga ggaaactaac gattccctgc ccaccccccac acccagcacc accaacaggt 60  
ggcaagctt gccgagaaaa cgcagaggc atcctgtgag cagcaaacac atctgagcct 120  
ggaaaagacg cagagaagta aaagatcaa gtctgattgg caccggctcc cattccggct 180  
ccagcctcca atccgacccc catttcggct gcagcctcg acctagctcc ggcctctcggt 240  
ctatcccggtt gcacccctccc tccctgttcc ggatcttatac ttgcgccagc gcctactcca 300  
ggatcccgtt gccagaccc tc aagccatggc tggcccttc tcccgtctgc tgtccggcc 360  
cccgggactc aggctcctgg ctggccgg agcggggtct ctagccctgg ggtttctgct 420  
ccgaccggaa cctgtacgag ctgcccagtga acgacggagg ctgtatcccc cgagcgtcga 480  
gtacccagac ctccgaaaggc acaacaactg catggccagt cacctgaccc cagcagtcta 540  
tgcacggctc tgccgacaaga ccacacccac tggttggacg cttagatcagt gtatccagac 600  
tggcgtggac aaccctggcc acccccttcat caagactgtg ggcattggccttggatgt 660  
ggagacctat gaggtatgg ctgacccgtt tgaccctgtg atccaagagc gacacaatgg 720  
atatgacccc cggacaatga agcacacccac ggatcttagat gccagtaaaa tccgttctgg 780  
ctactttgtt gagaggtatg tattgtccctc tagagtccaga actggccgaa gcatcccgagg 840  
actcagctcg cctccagctt gcactcgagc agancgacga gaggtggaaac gtgttgtgg 900  
ggatgcactg agtggcctga aagggtgaccc ggctggacgt tactataggc tcagttagat 960  
gacagaggtt gAACAGCAGC AGCTTATTGA TGACCACTTT CTGTTGTATA AGCCTGTGTC 1020  
cccggttgcgt actgcagcag gaatggctcg agactggcca gatgctcgat gatggca 1080  
caacaatgg aagagcttcc tgatctgggt gaatgaggag gatcatacac gggtgatctc 1140  
catggagaag ggtgttaaca tgaagagant gtttggaaaga tctgcccggagc cctcaaagag 1200  
gttgtggggacttaggtggaggacataag gaaaacccaaa 1250

<210> 125

<211> 1189

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1041)

<223> n equals a.t.q. or c

<220>

<221> misc feature

<222> (1136)

<223> n equals a.t.q. or s

<220>

<221> misc feature

<222> (1144)

<223> n equals a,t,q, or s

<400> 125

cttttttaa cccttaggt atctgatcgc tttgccaatt ttgcgttact gggcaaggcta 60  
agagatcttc tttaattca gcctgcttaa gacggaaact gataactgta gtgtatcctc 120  
tgccctttt cttatctatt ggaggaagct cagatggtgt cacaagaagg atctgaagt 180  
gagcttctag tatccccagg agcgcgaagt gaacacggaa ggtacctgca ggatccaatt 240  
gtgtccattg atctctcaga gtggctgagg ataatacgatg ttcttcctca aggtctcaag 300  
qtctqaaqca tcccacagaa tgatcctact gaataactcc cataagctgc tgccctata 360

caaattccttg gccaggagca tccctgagtc cctgaagggt tatggctctg tgtatcacat 420  
caatcacggg aacccttca acatggaggt gctggtgat tcctggcctg aatatcagat 480  
ggtttattatac cggcctcaaa agcaggagat gactgatgac atggattcat acacaaacgt 540  
atatacgatg ttctccaaag agcctcaaaa atcagaagaa gtttgaaaa attgtgagat 600  
cgtaaactgg aaacagagac tccaaatcca aggtcttcaa gaaagtttag gtgagggat 660  
aagagtggct acatttcaa agtcagtgaa agtagagcat tcgagagcac tcctcttggt 720  
tacggaaagat attctgaagc tcaatgcctc cagtaaaagc aagcttggaa gctgggctga 780  
gacaggccac ccagatgatg aatttgaag tgaaactccc aactttaagt atgcccagct 840  
ggatgtctct tattctggc tggtaaatga caactggaag cgagggaaga atgagaggag 900  
cctgcattac atcaagcgct gcataqaaga cctgccagca gcctgtatgc tcggccccaga 960  
ggagatcccgg gtctcatggg taaccatggg acccttcttg tgaagtagga atggcctaca 1020  
gcatggaaaa ataccgaaga ncaggcaaca tgggcacgag tgatggtgcg atacatggaa 1080  
atatactcggt cagaaggaat atttccatTT ttacatctct gtgttggaa ggaaantgaa 1140  
ggantccccgg cagatttgtg gggggcagtt ttgggttctt ttgaggcct 1189

<210> 126

<211> 428

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<400> 126

gaggtcctga gagactgtra gagccccaac tccattagta ttatggcct caataacttcc 60  
cggttgc当地 ttaccctgaa gcccccaagac cctatggaac agaacgttagc tgagctgtt 120  
cagttcctgc tggtaagga tcagagcaag taccctatcc gggagtctga aatgcgggaa 180  
tatattgtta aagaatatcg caaccagttt cctgagatac tcaggcgagc agcagccccac 240  
ctggagtgc当地 ttttaggtt tgaattgaga gaacttgacc ctgaggcaca cacctacatt 300  
ctgttaaaca aactgggacc tggccctttt gaagggttag aagagagccc aaatgggcca 360  
aagatgggccc tcctgatgat gattctangc caaatattcc tgaatggcaa ccaagccaaag 420  
gaggctga 428

<210> 127

<211> 645

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (255)

<223> n equals a,t,g, or c

<400> 127

acgcgggtcgg ccggggagccg gggaggagcg tggacgcccgg cctggcaggt acccccgcga 60  
gaacgtggga gcccgtgtat ttcaagctgca tttattactg atctcgggct gcaccaggc 120  
acttgttagga ccgcactaaa aacagcgaa agtggaggac caagcctggg tccggggcgg 180  
cccgccgtac agctggcctc acggattcca ctgcctgcgc ctgcagatga ctgttctgg 240  
agagtagaga atgtntcgg atttaagta caatccggtt tcctttccat tcattatag 300

tgccctacact caacaaacaa aagttggaa agataaagg attattctag cgcgacat 360  
tgacaaacac cgacgtaac acgctcagtc cagcctgact cacttgcctc aggtcagaga 420  
ggtcaccact gacgacgccc ggccctcaag ccgatcctaa tccagcttgg ttctctcagc 480  
ctcagccaga ccatccgttc ttgcctctgt cccaccacgt gcaggtgtaa gyttccgccc 540  
cacttcttgt ctgaatctgc caaggaagga aactggcatc tttcagctta aattctttt 600  
cacttgatca gggtaggag tttaggggt tttttttt aagga 645

<210> 128  
<211> 496  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (475)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (481)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (490)  
<223> n equals a,t,g, or c

<400> 128  
ctggagtctc aacgacgcgc acacgagaag taaggagcgg aagggtggaa agggccggaa 60  
aacacacgtt cctccgaaac cggtttgc aa gtcctttag agagtgatag attcgtgtgg 120  
cctttcaa at gattgtgaag tggtgaaat ggatccaaa taataagtga cttctctacc 180  
aaagcataga agattcttca tatctccctc cagtggtca attagat tggaaargag 240  
cagaacaagt gaaacacaga aaactgaaga gaagaaatcc tcattttgga cctatatttc 300  
tccttgacta ttcttaata tccatcc tac ccatcggtct aatgttttaa ctttgctctg 360  
aatttataaa tagtaaaggc caaagacata gaatatacat ttagtagott tataccaaga 420  
aatttgcctt gaaagctgct gtscgtggag gggaaagtgt agcaaattcc tggcnattt 480  
naattttaan ttattg 496

<210> 129  
<211> 424  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (313)  
<223> n equals a,t,g, or c

<400> 129  
ctggcggccg caggagcgcg tgccggctgg actttgcgg gctgccaca cagccccaga 60  
cccggtttagg accggggagac cgaacgcgc gwccagccgg ggagttcgg cggcggtctc 120

cgggcaccgc gcgcggaagc cagacgcagc ggggggacac atctcgcggt ggcgttgc 180  
gagtgaggag ttagcaggca ggacttgacg aggcttttg gttttcttag tcctcaacca 240  
ctgaagaaga agcttcatgc ttggctgtca gaagacatga attacgcacg gttcatcacg 300  
gcagcgagcg cancagaaac ccttctccca tccggaccat gactgacata ttgagcagag 360  
gaccaaaaatc gatgatctcc ttggctggtg gcttacccaa tccaaacatg tttcctttta 420  
agac 424

<210> 130  
<211> 1709  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (881)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1028)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1061)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1168)  
<223> n equals a,t,g, or c

<400> 130  
tggaccgcag ctccctggaa gacacaaccc ccgcaggga cgagaagaag gtggggcca 60  
aggctgccc gcaggacagc sacagsatg gggaggccct gggcggcaas ccgatggtgg 120  
carggttcca ggacgtgtg gacctcgaag accagccacg tgggagtccc ccgctgcctg 180  
caggccccgt ccccagtcaa gacatcaact tttcagatgtga ggaggaagca gaagtggcag 240  
ctccccacaaa aggcctgcc ccagctcccc agcagtgc acagccagag accaagtgg 300  
cctccatacc agcttcgaag ccacggaggg ggacagctcc cacgaggacc gcagcacccc 360  
cctggccagg cgggtctct gttcgacacg gtccggagaa gcgcagcagc accaggcccc 420  
ctgctgagat ggagccgggg aagggtgagc aggctcctc gtcggagagt gaccccgagg 480  
gacccattgc tgacacaaatg ctgtccctcg tcatggatga ccccgactt gagagcgg 540  
gatcagacac acagcgcagg gggatgact tccccgtgcg agatgacccc tccgatgtga 600  
ctgacgagga tgagggccct gccgagccgc cccccacccc caagctccct ctccccgcct 660  
tcagactqaa gaatgactcg gacctcttcg ggctggggct ggaggaggcc ggacccaagg 720  
agagcagtga ggaaggtaag gaggggcaaaa cccctctaa ggagaagaag aagaagaaga 780  
aaaaaggcaa agaggaagaa gaaaaagctg ccaagaagaa gagcaaacac aagaagagca 840  
aggacaagga ggagggcaag gaggagccgc gacggcggca ncagcggccc ccgcgcagca 900  
gggagagggac ggctgcccgt gagctggagg ctttctggg gggcggggcc cggggcggccc 960  
ccacccctggg ggtggcgact acgaggagct ctggccggc gtgggcagtg gccgccttgg 1020  
ggcgggggngc gtgcctgtca ctgcctgggg aggcatggc ntctgtacca tcgcctttgc 1080

cgctgccccg tggctgccgt gtgcgcttct gagctggaag aggccggca ttgggtgtcc 1140  
ccaggctggg ccctgcaggt gctggcncnt cagccyagtg tgacgcgtct ctgcaagaag 1200  
ggaggggaca gctggcttca gccaggctcg gtggacaccc tggccctctc ggggcagagc 1260  
cgccagtgtt tctcaggat gtgactgagg cccaggaggg acctgtgagg gtctgtttac 1320  
agaggctggg cagggggccgc ttggctgtgg ggtgtgcgt gccccggcac ctgctgccc 1380  
tccgcgctca tctggggccg cagcatgcct atggtccgc ttccggccgg gagccctgaa 1440  
cacgggtgtc cagactcacc ctaaaggcg gcccaggccc cacgctagaa ggctggcgag 1500  
accgaagcag catgtgaggc ctctcctggg agtgggggtt gtgtttcca cagtggcctc 1560  
agctgcgccc ccgctcaggt gagccccaaag gcaggagccg ggaggcactc ctcccaaaca 1620  
ctccacttag accataaagc actcctgtt cactctgaaa aaaaaaaaaa aaaaaaaaaa 1680  
aaaaaaggcgcc cgctcgcga tctagaacc 1709

<210> 131

<211> 866

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (683)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (723)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (740)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (793)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (813)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (841)

<223> n equals a,t,g, or c

<400> 131

ctcgctcggg ttggttcagt gcactctaga aacactgctg tggggagaa actggacccc 60

aggctggag cgaattccag cctgcaggc tgataagcga ggcatttagtg agattgagag 120

agactttacc ccgcccgtgtt ggtggaggg cgccgcgttag agcagcagca caggcgccgg 180

tcccgaggccggctctgc tcgcccggag atgttgcatac tccttcacga aaccgactcg 240  
gctgtggcca ccgcgcgcgg cccgcgtgg ctgtgcgtg gggcgctgg gctggcggt 300  
ggcttccttc tcctcggtt cctcttcggg tggtttataa aatcctccaa tgaagctact 360  
aacattactc caaaagcataa tatgaaaagca tttttggatg aattgaaaagc tgagaacatc 420  
aagaaggcttct tatataatatt tacacagata ccacatggtag caggaacaga aaaaaacttt 480  
cagcttgcaa agcaaattca atcccagtgg aaagaatttg gcctggattc tggtgagcta 540  
gcacattatg atgtcctgtt gtcctacca aataagactc atcccaacta catctcaata 600  
attaatgaag atgaaaatga gattttcaac acatcattat ttgaaccacc tyctycagga 660  
tatgaaaatg gttcgatat tgnaccacct ttcagtgcct tctctccctca aggaatgcca 720  
ganggcgatc tagtgtatgn taactagcac gaactgaaga cttctttaaa ttggrracggg 780  
acatgaaaat canttgcctc ggggaaaatt gtnattgcca agatatggga aagtttcaa 840  
naggaaataa gggtaaaaaa tgccca 866

<210> 132

<211> 1593

<212> DNA

<213> Homo sapiens

<400> 132

gtttagtga gctgagatca tgccactgca ctccaaacctg ggtgacagag cgagactcca 60  
tctcaaaaat aaataaataa ataaataaat aaaaccttaa tttgatgggt gttttatgtc 120  
tgccatttcc atttagattc aaagaatcct aagaataatg gtggagcaaa gcttattttt 180  
ctgttttttgc aatcttgtaa ggcatggtgc caaacccaaat gaaatggtgc caaaaagtcc 240  
tgcagctgga actagagcta gagtctaagg gttctgatcc tttagctccaa ggccttctca 300  
taaatccttt gacactttca ccctccaaaca cagtcagtc gtcctctgtt ttctgggttgg 360  
gtttctatat aaaacttcc attttgagta atgatcttcc cctcttgccct tttcttctac 420  
atattccaaat aaagaccttt tttgtcttca actcctgtca ctggattcc aggacttctt 480  
ccatccctca tgggttttcc ttacttttgc agcctcggttcc atttctgtat cccctgcct 540  
gggkttgtcgc ccctttatgc tccttamctca ccaggtacaa ggaacatgaa gatggctata 600  
tgcggctgca gctgggttgc tamgagagtg tagagctgac acagcaactg ctgcggcaac 660  
cacaagaggg atccccgtgg gaacgtcgct gaacgagagc agcctgcarg gsattattct 720  
agaaacagtgc ccaggggagc caggacgtaa ggaagaggaa gaggaggccca agggtagcga 780  
agggacagcc ctctcagccct ctcaggacaa ccccagttct gtcatccacg tggtaatca 840  
gaccaatgcc caaggccagc aararattgt ytactatgtg ctgtctgaag ccccaaggag 900  
ccttccccca gcccctgagc caccttcagg gggcatcatg gaaaagcttc aaggaatagc 960  
tgaggagcca gagatccaga tggtttgaag gccgcagagc cagaccattt ctccccagg 1020  
tcctgaagtt tgagccaggc aagtggcagt gccccttagt ggcagccgtt gccaatggat 1080  
gccttttagga gtggtgcgca gagcagtgtg gtcactctg gcctgggtt gcatcattct 1140  
gcagactcta aagacttccc ttttctgccaa gactacattt tgggggagc ctgaggactc 1200  
tggattttt gaggggatcc tggatgtgtg tggatgtt aaagaggctg ttatcaggct 1260  
taacyataac cctcaagatc tgcttgacag tgattaaatc cttagctcac atccattccc 1320  
atctttcggg ctcccttaggc ccaaggatgg catgtgactg gtcctgccttgc 1380  
tttgcacca gccaaggcat tgataacca gtagccattt tcctcttaag gtttcctctca 1440  
caaccccaag gactttcatg attatcctca gggacaggat tggaggcatt gagcgtgttt 1500  
attaacaatat tggggatgg aataaaaataa atgcttggaa aaaaaaaaaa aaaaaaaaaa 1560  
aaaaaaaaaa aaaaaaaaaa aaaaaactcg tag 1593

<210> 133

<211> 408

<212> DNA

<213> Homo sapiens

<220>  
<221> misc feature  
<222> (381)  
<223> n equals a,t,g, or c

<400> 133  
tccttctgac gtcaatgtga tggcggaaatc gctgaaggat atggaagcag atgcgcagaa 60  
actgtaccag ttaatctggc gtcagttcg tgcctgccag atgaccccaag cgaaatatga 120  
ctccacgacg ctgaccgttg gtscgggca tttccgcctg aaagcacgcg gtcgtatccc 180  
gcgttttgcg ggctggacaa aagtgtatgcc tgcgttgcgt aaaggcgatg aagatcgcat 240  
cttaccagca gttataaaaag gcgatgtct gacgtcggtt gaaacctacac cagcccgca 300  
ctttaccaag ccggccagcccc gtttcagtga agcatcgctg gttaaagagc tggaaaaacg 360  
cggtatcggt cgtccgtcta nctatgcgtc gatcatttcg accattca 408

<210> 134  
<211> 2741  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1673)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2736)  
<223> n equals a,t,g, or c

<400> 134  
cggcgtaag acttcgtagg gtttagcgaaa ttgaggtttc ttggtattgc gcgttctct 60  
tccttgcgtga cyctccgaat ggccatggac tcgtcgcttc aggcccgccct gtttcccggt 120  
ctcgctatca agatccaacg cagtaatggt ttaattcaca gtgccaatgt aaggactgtg 180  
aacttggaga aatctgtgt ttcagtggaa tgggcagaag gaggtgcccac aaaggccaaa 240  
gagattgatt ttgatgtatgt ggctgcataa aacccagaac tcttacagct tcttcctta 300  
catccgaaga caatctgccc ttgcaggaaa atgtacaat ccagaaacaa aaacggagat 360  
ccgtcaactc caaaattccct gtcggaaaag aaagtcttcg aagccgctcc actcgcatgt 420  
ccactgtctc agagcttcgc atcacggctc aggagaatga catggaggtg gagctgcctg 480  
cagykgccaa cttccgcaag crggtttcag ttcccttgcg gaggaaatca tgtcttgtga 540  
aggaagtgg aaaaatgaag gaacaagcga gaagagaaga aggcccgaa ytctgaawtg 600  
agaatgaaga gagctcaggw gtatgacagt agttttccaa actggaaatt tgcccaatg 660  
attaaagaat ttccggctac tttggaatgt catccactta ctatgactga tcctatcgaa 720  
gagcacagaa tatgtgtctg tggtaggaaa cggccactga ataagcaaga attggccaa 780  
aaagaaaattg atgtatttc cattccttagc aagtgtctcc tcttggtaca tgaacccaa 840  
ttgaaaagtgg acttaacaaa gtatctggag aaccaagcat tctgctttga ctttgcattt 900  
gatgaaacag cttcgaatga agttgtctac aggttcacag caaggccact ggtacagaca 960  
atctttgaag gtggaaaagc aacttggttt gcatatggcc agacaggaag tggcaagaca 1020  
catactatgg gcgagaccc tctctggaaa gcccagaatg catccaaagg gatctatgcc 1080  
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<210> 135

<211> 686

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (638)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (655)

<223> n equals a,t,g, or c

<400> 135

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gaattacaga gaaaacacac ctgcacgcgc actctctcgt acacgctgtg cggcttctgt 120  
ttggttgcc agttcgccc aatttccgac tcacaggctg cggagcagca actctcacga 180  
tatTTGCTCG acccgcaqgc gtatccgctg ccgggttctg gcgcgccccctt tcagttctgc 240  
ttgctgtcsg caccgctgctg ttacccggaa ccgcggggcc gaacagcatg acgtcccgctt 300  
tggagaacta catcaaccgt atcctcaagc tggccggcg ggcgtgagcc ggggtcgccgg 360  
agaggcccg gtcggggatc ggtggggaggt tgggaggcct ggcctcgccgg gatccctggg 420  
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ttcccgctgc tgccggccca rgggtccttt ccattttgcc tgcaaaaaccc aaataaaaaac 540  
ccagtgtgat tattccgaac ttttctgtct taaaaaaaaat gtacgctctt gattcttact 600  
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ggcgacaaca gtttgcatac tttgtat 686

<210> 136  
<211> 242  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (229)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (242)  
<223> n equals a,t,g, or c

<400> 136  
cagcttactc tcaatatatc tctcttactc tctctctctc tctctttttt ttttaatatg 60  
gtgaaattag accagggtc agaacataga ttttagtctc cttagttca tctacttagga 120  
gactaaatta gataatctct aaactccctt tttagtctaa aattctgtaa ttAAactcta 180  
gcatatcatc attttagact aaaagtttc ttcttcttct tctttttnt tttggtttt 240  
tn 242

<210> 137  
<211> 545  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (445)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (527)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (534)  
<223> n equals a,t,g, or c

<400> 137  
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ccacacccatgc ataagaattt gagcccagtt cataaaggcag atcatgaagc aattatcttc 120  
cttggaaagggt ttttagcttgc ctctccagtt gcctcagcag ctttggctct gtgccacagt 180

gagcccaagg ggaaggtgat ggaacagcat cacatctgca ggctcagtgt tttgttttgt 240  
gagggttaagg ggagggaatg tagacggatg aagaatttc tccctactgc ttccatttt 300  
atatttctt aacttcacat ttcatccca ttcttagcag ttgccttagtt atagaggatt 360  
tcttttawct tttttcaga ggcattccag gtgaagtga ggtgcttgst ggsctacaac 420  
tccagtgctc gcaattccaa aatgnccctt ggatggaggg ttggtgagaa tgtcaccaca 480  
gtggaaaacc agcaatcggtt ggaaccattc ccttaagcaa gccttnaaa gttntttaa 540  
tgccc 545

<210> 138  
<211> 396  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (334)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (373)  
<223> n equals a,t,g, or c

<400> 138  
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gagcctataa tagtggccag tgccagagga ggctccctca agaaagccag agttgagatc 120  
tggaggagga gagggagttt gccagaccag ggtggagatg agggtattct gagcagcagg 180  
acctgcaggg gcacaaggca agggccgcat cctagaggag acccagtggc caggcacatc 240  
atgggaactg caggctggcc ccaaggctct gccccgtcc tcccttgag gcagggcctc 300  
ctggagcctt gtgctcatcc tgggctctt aggncccagc cctgcacaga gagcgcagac 360  
gtgcctgccc ttncaaccccg tccgctctgt cctctt 396

<210> 139  
<211> 2771  
<212> DNA  
<213> Homo sapiens

<400> 139  
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agttaaatttcc ttgggaccta gagaagaatg aacgagtggc ccacgtgtt aaaaattgaa 180  
gtcaaccaca gagtcgtatg ttttcacaa tcataaat gctgattttc acagaatcca 240  
agagaaaaact gggaaatgtt gggccctgt gaccatcatt gatgtcagag gacatagttt 300  
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tggtaataga ccagatgttta ttgaatccat tgattcacag gttttacagg aagcacgtcc 420  
tccattatgtt tccgcagacg atgagatata tagcacaatg aaagcatttta taggacccat 480  
ttacaaaccc cctgagaaaa agaaacgtt gtaaggagg aatgaggcac atgttctaaa 540  
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gattgacaat gaattattcc agttttacaa agaaattgaa gagcttggaaa aggaaaaaga 660  
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tgagggtcat aataatggtc tcttaaaacc tgatgttggaaa aagaaagatc ttagtaataa 780

agctatgcc a tcacattgtg attatcagca gaacttgggg aatgagccag acaaatatcc 840  
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aaaaaaaaaa a 2771

<210> 140  
<211> 422  
<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc feature  
<222> (329)  
<223> n equals a,t,g, or c  
  
<220>  
<221> misc feature  
<222> (392)  
<223> n equals a,t,g, or c  
  
<220>

<221> misc feature  
<222> (422)  
<223> n equals a,t,g, or c

<400> 140  
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tatgcagaata tataccacct tacataaacc tcactttaga tattcctcaag tgattgcaca 180  
tcaagatctt gcaaattgaa aaatacatta agtatgccat ggggttgact ttttacaga 240  
attcacacat gatttcttc ataagtttag gatcttttag ggtgcccata gccttgcc 300  
tatttacgta ttttataaac ctacattng gkataawgaag tctttcytt ttttttgag 360  
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cn 422

<210> 141  
<211> 1630  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1566)  
<223> n equals a,t,g, or c

<400> 141  
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gtgggggtgt a gacccactt gctgttgc cggacattt cggccacacc agccctgtcc 180  
tggggcgaa ccgaagaagg tcggggccctg ctgccccggcc ccttccttcc tccttccgg 240  
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ttattnaata aatttccact agagggtgtt ctcaggtcac tttgcagtgg aagtgggact 1620  
tagttcctcc 1630

<210> 142  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 142  
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gctctgaaag ctgtggaaag gtgttagtgg gccccacaga atacagccat tggataaata 120  
tgaagacaat cctggaagag ctttgtcaga ggggtcatga ggtgactgtg gtwracatcy 180  
tcggcttcta ctcygtgtcaa tgccagtaaa tcatctgcta taaaattaga agtttatcct 240  
acatcttga actaaaaatt attt 264

<210> 143  
<211> 636  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (2)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (9)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (260)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (323)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (480)  
<223> n equals a,t,g, or c

<400> 143  
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gccggggcgct ggccgcgttt ctttactatac acgttaccgc tgaccttacc gggattatt 180  
gttggtaacgg tactggcttt tgctcggtt ctcgggtgagt ttgggtgcaca tcaccttgt 240  
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taccgtactt caatccataa agttgcgtt agccgcacgg ttcaaaaacgg ctgggcacca 540  
gaatgacgtc cgccgcgccc ataatgcgtat gcgaawatgc tcgtgatagc caatctgaac 600  
gcccacctga ccggggattt tccgtgccgc cgcaag 636

<210> 144

<211> 500

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (476)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (489)

<223> n equals a,t,g, or c

<400> 144

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gccagggcag cgctccggg agcggagtcc gcgcggccgcg ccgcattgcgc ggacagctgg 120  
gacaaggatg tgtaccctga gccccccgcgc cgcacgccgg tgcaagccaa tcccatcgcc 180  
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atagagcggc agcacgcataa gaacaggat tactactacc accggcagta ccgcgcgtg 300  
ccagacatca ctgagtgcataa ggaggaggac atcatgtgcataa tcaaaktgcataa ccaagaaattt 360  
atcacattat gcaggatcg ytcaaagcyt ktcagcagag ggaaggacag actaccagca 420  
gactgtatca aggaaktgaa gcagttaccc aggtggccaa ggctaccagg gaccgntatc 480  
aggacctgng ggctacatg 500

<210> 145

<211> 1945

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1934)

<223> n equals a,t,g, or c

<400> 145

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cagacatatac tcagcattta taacctaaga ctgaatcaact gcattttacc cttaatgagg 180  
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gactcacgtc tccacaacc aagctccccca agttccgggt tctgtcacct ccaggctgag 360  
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caggtccctct ttgggttcgc tgtacacccg gagcccgagg cttgcggcga ccacgagcaa 480  
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ggtaaaatataa cttttggcag acagttttt atgaattatg tatcatgtt atatataata 1800  
tgttaatgtt tcattttttt tttttttttt acaaaatgtt tttttttttt tttttttttt 1860  
tactgtaaaa taatataaaa tattttttttt acaaaatgtt tttttttttt aaaaaaaaaa 1920  
ttactgcggc ccgncaaggg aatttca 1945

<210> 146

<211> 1114

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1006)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1034)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1055)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1084)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1108)  
<223> n equals a,t,g, or c

<400> 146  
agagtgcgct gcgtttcgat gagccggac gtggcgccrc tctagccagc gcctgggctc 60  
tgtggcggc gcccgcagctc cgctcccccc gcgcctccctc ccagcgcaga cttcaaggc 120  
taccactgga cccttccccc gtcttgaacc ctgagccggc accatgcacg gacgcctgaa 180  
ggtaagacg tcagaagagc aggccggaggc caaaaaggcta gagcgcagagc agaagctgaa 240  
gctataccag tcagccaccc aggccgtatt ccagaagcgc caggctggg agctggatga 300  
gtccgtgctg gaactgacaa gccagattct gggagccaac cctgatttg ccacctctg 360  
gaactgccga cgagagggtgc tccagcagct ggagactcag aagtctccctg aagagttggc 420  
tgctctggc aaggcagaac tgggcttcctt ggagagctgc ctgcgggtga accccaagtc 480  
ttatggtacc tggcaccacc gatgctgct gctaggcsgc ctgcctgagc ccaactggac 540  
ccgagagctg gagctctgtg cccgtttctt ggaggtggat gagcggaaact ttcactgctg 600  
ggactatcgg cgggttgtgg ccacacaggc agccgtgc cctgcagaag arctagcctt 660  
caactgacagc ctcatcaccc gaaaacttctc caactactct tcctggcatt accgctcctg 720  
tctcttgc cagctgcacc cccagccgga ttctggacca caggggcgcc tccctgagga 780  
tgtgtgc taaagagctgg agctggtgc aatgtttct tcactgaccc caatgaccag 840  
agtgcctggg tttatcaccc ttggctccta ggccgagctg acccccagga tgcaactgcgc 900  
tgcctgc tggccggga csaggcctgt ctgactgtct cttctctcg gscctctta 960  
rtgggctyca ggatkagat cttgctgct atgggtgatg aatctncccc tgattgtgga 1020  
atggagagacc ccanatggca ggaacccggg ccaanctgta tggtattcca agatgggtgg 1080  
gcanaaatttggc ggcgtgggca aggctggntg gaaa 1114

<210> 147  
<211> 546  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (433)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (486)  
<223> n equals a,t,g, or c

<400> 147  
ctcgggtgta gtagtggcgt ggccgtgagg tccctgcgcc tgccgcctgg atggcctgg 60  
tgccgctccc gccttcgcag ccagcgcggg cttacctagt gttaaatctc tcttottggg 120  
tggcccacgc ctaagcgacc tatgcttctt gttctctga aatcttacag ttccccttag 180  
atgttaggttgc gctattggta gcttccgatt cagataagtt tggaaacttga cagatgtttt 240  
cgggggggctg ctttagagag aggctttgga ctatgcagg ggaggaaggaa ggtttagaaaa 300  
aacggggctg ggggtcgcc aggacgactc ttraartgtg gaaggtggaa gctggaggg 360  
gagataaagg gcaccraaga ccagcttgc tgcctctatc aaggtgatcc tttccagagc 420  
aagagccata tgnatgtcta gtcgcacgag tttgtgccaa gtccttgc aaaaaccttca 480

gatgtnggat ctcatgtaat cttgaagaca tcttagtcgt cctaagggtt aattatcaa 540  
ttgatg 546

<210> 148

<211> 1763

<212> DNA

<213> Homo sapiens

<400> 148

ccgaccccag ccctagcctc tggggcattg tctgcccttc gccgtcgccc ctccgcctag 60  
ccgccccactt cccgcctcc caccccttcc tcgccttcc accakacctc cctcgacgcc 120  
cgacagctgc tctgggtact gtttccgggt cagggtgacc tctgggtga ggaaactgcg 180  
actggggagcg ggacccaggc gtgcagcatt cgccatgctc cgctcacgctg tggagactg 240  
ggctgtgggg taccggcccg gaaagcacgc agcctccaaa gccgccttcc tcagggaaat 300  
ttgcgtgacc ttactgcctt ccgtctacag gcctgttacc tctccagggc gatTTTCCA 360  
caatttaaat cccagttcac ctggtatcca gctccagcaa cttagagcgt ttcacgtcac 420  
gccggggcgc agggtcgccg ttgtataacc tgaaaacgct cctgttttc tcacgtgtc 480  
agtgggtttt gattcccacc atggccatca cccagttcg gttatttaaa tttgtacct 540  
gcctagcaac agtattctca ttccctaaaga gattaatatg cagatctggc agaggacgga 600  
aattaagtgg agaccaaata actttgcctaa ctacagttga ttattcatca gttcctaagc 660  
agacagatgt tgaagagtgg acttccttggg atgaagatgc acccaccagt gtaaaatcg 720  
aaggagggaa tggaaatgtg gcaacacaac aaaattcttt ggaacaactg gaacctgact 780  
atTTTAAGGA catgacacca actatttagga aaactcagaa aattgttatt aagaagagag 840  
aaccattgaa ttttggcattt ccagatggga gcacaggttt ctctagtaga ttagcagcta 900  
cacaagatct gcctttattt catcagtctt ctgaatttagg tgacttagat acctggcagg 960  
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gacagcagaa actagcagac agagaaaaaa gagcagccga acaacaaagg aagaaaaatgg 1080  
aaaaggaagc acaacggcta atgaagaagg aacaaaacaa aattgggttg aaactttcat 1140  
aacacatgtt caaaattttt catgccagta ggagaaaatct cagctccaca acccaagcaa 1200  
catTTTGTATG gattaagag tattttaaaga agacatactg cttgatTTTt atacattgtat 1260  
caggccatcc aggacaccac gattctccca aagtacctt aactcttagt gattgagact 1320  
caaaaaaaaaaaa aaaaagactt gagacaatgt tttcttcaac atgctccaaa tataagacat 1380  
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tctagctaaa taaatgggtg tatataattt tatgtggaa aagaactgtt ctgtctgtt 1500  
tgatTTCTT caatgtgtcat aatgataaaa taaataattt taatattctt ttgtttccat 1560  
ggttacctga cctaaatttag ataaaattgtt gggcttttagc tttcttattt ttgtcaaaag 1620  
ttgggtgtga catacatTTCC ctctaaTTTt aactggttt gtttacgttt gataacaacat 1680  
taaggaattt gatgattttc atttcatgaa aatgacatta aatgcaataa ttTTTACTT 1740  
cataaaaaaaa aaaaaaaaaaaa aaa 1763

<210> 149

<211> 371

<212> DNA

<213> Homo sapiens

<400> 149

aattcggcac gagcagactt gagagcaata aatgcaaaacc taaatgagaa aatggaatcc 60  
ctgacagctg tgcgtatc aagcatcaat ctctaaacca gttgccccag cctgacagtg 120  
ctagtctctg tttaatggta aaaggagact ttgcataat tttcagatgtt agatTTTCC 180  
caaacactgt ttacagaatg agatgtgact ctacagatac ctcataagaag acaatccaag 240  
atcatacttc attaacttga cagagtacgt gtcttaaagg aagcatcagg aattccaata 300

tttgcmtta aaatacttt twagggcctt ttatattagg ccatgcttgg aaaactggat 360  
tttttttatt a 371

<210> 150  
<211> 432  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (3)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (379)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (408)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (421)  
<223> n equals a,t,g, or c

<400> 150  
atnttcagga atcctcacgc aacccggaag aagcgcaagg gctggaccgc taaacctgag 60  
ggcgccccggc ctgcgcacgg gaacctggac tggaacccta cttgcaggtc cccaacttgc 120  
gtctctyctc tctgtctcta ccccagccaa ggacaaagac ttctcctccg gaaggcctcc 180  
cccagctgag ggaacgttcc aggtcytccc tcggccctgg ctgcgcgccc ggtgccggct 240  
ctgacgtgggt ttccctctccc ctcaggactg gtccctgctcg ctccctcgtgg cctccctcgc 300  
gggcgccttc ggytcctcct tcctctacgg ctacaacctg tccgtggta atgcccccam 360  
cccggaaagga caattttgtt gggccaataa atggggtttt gaaatttntt gttggatttg 420  
ntgaatgggc tt 432

<210> 151  
<211> 401  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (234)  
<223> n equals a,t,g, or c

<400> 151  
gaaagcaaag ttcaacatca ctgggtgcctg cttgaatgac tcagatgacg actcaccaga 60  
cttggacccctt gatggaaatg agagcscatt ggccttattt atgtctaacg gcagwacgaa 120

aagggtgaag agtttatcca aatctcgccg aaccaagata gcaaagaagg tagacaaggc 180  
taggctgatg gcagaacagg tcatggaaaga cgartttgac ttggrrtcag atgntgagct 240  
gcagatgac gagagatgg ggaaagagaa ggcgaccctg ataataagac caaaatttcc 300  
ccggaaatttgc ccccggtcgac accttgcctt gaccccaacc gagttcgta accaggagaa 360  
gttgagtttgc acattgagga ggatatacaa cagatgaggg t 401

<210> 152

<211> 851

<212> DNA

<213> Homo sapiens

<400> 152

tctccgata actgtgctcc tgacatcctt ctttatggtt ttgggaactg gtctaagatg 60  
catacctata tcagacttaa tccttaaaaag aagattaatt catggaggac agatgttaaa 120  
tggattggca ggttccaaactg taatgaatgc agcaccattt ctctctacga cgtggtttc 180  
tgcagatgaa agggccacag ccacagctat tgcacatcaatg ctcagtttac ttgggggagc 240  
atgtgcattt ttagttggac cacttgtgt tccagctccc aatgggacat caccctttct 300  
tgctgcagag agcagcaggg cgcatattaa agatcgcata gaggctgtgt tatatgcaga 360  
atttggagtt gtctgcttaa tattttctgc aacactagct tatttcccac cccgacctcc 420  
tcttcctccc agtgttgctg cagctagcca gcgtgagtt tcggagaagc gttttagat 480  
tattaagcaa ttttcgattt ttgatgattt cttagcata tgccataccca cttgggttat 540  
ttgctggctg gtctggagtt ctggacttaa ttttaacacc agcgcatgtc agccaagtag 600  
atgctggctg gattggattt tggccatag ttggaggctg tgggttggaa atagctatgg 660  
caaggttgc agattttatac agggttatgc taaaactaat tcttccttc ctgtttcgg 720  
gagctacact gtcatccacg tggttcaccc tgamctgttt gaacagcatc acacacctac 780  
ctttaaccac agtgacattt tatttcctt gtatttcctt gggagtgttc ttgaatagca 840  
gcgtgcctat a 851

<210> 153

<211> 1678

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1663)

<223> n equals a,t,g, or c

<400> 153

ctcgtgccgc acagctctgg gtgtggagg gggttgtcca gcctccagca gcatggggag 60  
ggccttggtc agcatctagg tgccaaacagg gcaaggccgg ggtcctggag aatgaaggct 120  
ttataggct cctcaggag gccccccagc cccaaactca ccacctggcc gtggacaccc 180  
gtgtcagcat gtggacactg gttctctcca tcgccttgc tgggggtgc actggtgccg 240  
tgcccccattt ccagtctcg attgtggag gctggagtg tgagaagcat tcccaaccct 300  
ggcagggtggc tgtgtacagt catggatggg cacactgtgg ggggtgtccctg gtgcacccccc 360  
agtgggtgct cacagctgcc cattgcctaa agaagaatag ccaggtctgg ctgggtcgcc 420  
acaacctgtt tgacgcctgaa gacacaggcc agagggtccc tgcagccac agcttccac 480  
acccgcctca caatatgagc cttctgaagc atcaaaggct tagaccagat gaagactcca 540  
gccatgacccatgctgcty cgcctgtccag agcctgccaa gatcacagat gttgtgaagg 600  
tcctggccct gccacccagg agccagcact ggggaccacc tgctacgcct caggctgggg 660  
cagcatcgaa ccagaggagt tcttgcgccccc caggagtctt cagttgtgtga gcctccatct 720

cctgtccaat gacatgtgtg ctagagctta ctctgagaag gtgacagagt tcatgttgtg 780  
tgctgggctc tggacaggta gtaaagacac ttgtgggggt gattctgggg gtccacttgt 840  
ctgtaatgggt gtgttcaag gtatcacatc atggggccct gagccatgtg ccctgcctga 900  
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agccaacccc tgagtggccc tgcacccctacatcttag taaatttaaag tccacactac 1020  
gttctggcat cacttggcct ttctggatgc tggacacctg aagcttggaa ctcacactggc 1080  
cgaagctcga gcctccttag tcctactgac ctgtgtttc tgggtgtggag tccaggcgt 1140  
ctaggaaaag gaatgggcag acacagggtt atgcataatgt ttctgaaatg ggtataattt 1200  
cgtcctctcc ttccggAACAC tggctgtctc tgaagacttc tcgctcagg tcaagtggag 1260  
cacacacaaa gacgtgggtg accatgttgt ttgtgggggtg cagagatggg aggggtgggg 1320  
cccacccctgg aagagtggac agtgacacaa ggtggacact ctctacagat cactgaggat 1380  
aagctggagc cacaatgcat gaggcacaca cacagcaagg atgacgctgt aaacatagcc 1440  
cacgctgtcc tgggggcaact gggaaaccta gataaggccg tgacagaaa gaaggggagg 1500  
atcctccatat gtttgtgaag gagggactag ggggagaaac tgaaagctga ttaattacag 1560  
gaggtttgtt caggtccccca aaaccaccgt cagatttgat gatttcttag caggacttac 1620  
agaaataaaag agctatcatg ctgtggtaa aaaaaaaaaa aaaaaaaaaga agtcgacc 1678

<210> 154

<211> 1158

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1138)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1148)

<223> n equals a,t,g, or c

<400> 154

ctttatggtg aaagccttac ggagatgtct gtgagtagca tatcttctgc aggctttct 60  
gtggcctctg ctgtccccctc agcacgaccc cgccaccaga agtccatgtc cacttctgg 120  
catccttatta aagtccacact gccaaccatt aaagacggct ctgaagctta ccggcctgg 180  
acaacccaga gagtgcctgc tgcttccccca tctgctcaca gtattagtac tgcgactcca 240  
gaccggaccc gttttccccg agggagctca agccgaagca ctttccatgg tgaacagctc 300  
cgggagcgcac gcagcggtgc ttataatggg ccacactgctt caccatccccca tgaaacgggt 360  
gcatttgcaa tgccagaagg ggaacgtcaa ctggtataat aagcaaaatc acatccaaat 420  
ttgttcgcag ggatccaagt gaaggcgcanc accgacaccc caagaagtac 480

atcaggggaa ccaaaagaaa gagacaagga agagggtaaa gattctaagc cgcgttcttt 540  
gcggttcaca tggagtatga agaccactag ttcaatggac cctaatgaca tgatgagaga 600  
aatccgaaaa gtgttagatg caaataactg tgattatgag caaaaagaga gatttttgct 660  
tttctgtgtc catggagacg ctagacagga tagcctcgta cagtgggaga tggaaagtctg 720  
caagttgcca cgactgtcac ttaatgggt tcgcctcaag cgaatatctg ggacatctat 780  
tgccttiag aacattgcat caaaaatagc aaatgagctt aagctgtaaa gaagtccaaa 840  
tttacaggtt cagggaaat acatacatat atgaggtaca gttttgaat gtactggtaa 900  
tgcctaattgt ggctgcctg tgaatctccc catgtagaat ttgccttaa tgcaataagg 960  
ttatacatag ttatgaactg taaaattaaa gtcagttatga actataataa atatctgttag 1020  
cttaaaaagt aggttcacat gtacaggtaa gtatattgtt tatttctgtt cattttctgt 1080  
tcataaggtt gtataataaa acatgatgc ttaaaaaaaaaaaaaaaaaaaaattnct 1140  
gcggccgnca aggaatt 1158

<210> 155

<211> 1969

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (479)

<223> n equals a,t,g, or c

<400> 155

gccgcacgag cagccagaga cagcgcgacc cggagccgga gccagagcca gagccagagg 60  
gaggacgcag ccgcgcgggg gcgcagaacg accagcttag caccgggccc cgccgcgc 120  
cgaggaggc cgagacgctg gcagagaccg agccaggtaa gcggcgaggc cggggaaagg 180  
gggcagccca aggccggaccc ccagagctcg gggtcaggg acgcggggct ccgcggcgc 240  
aggcagaggg accttcccgc ctccgcagcc acgcgcgcgc ccccgaaatg aaccctgagc 300  
cccagcgtca gggccgcgc ggattctgac accgcaggat tgcgggggtt ccgtgccttc 360  
cgttccctgg ggctcagaag cggcgcgac tgcagcgcca ccgccttcca ccgtcccagg 420  
agcggatccc gccccgcgc acccgcgatc ggcgccagcc ccccggtagt tatgagaant 480  
aataataact tattaacagt gacaaagcag gggttgacca gcaaaggctc cgtgtgcctc 540  
ccaatcccgt gggcagtaaa gcggtatatt cggggttccc tccgggttcc aggagagaga 600  
gtccacttat ttctttctt gtcacttctg atgaggcgac cgaacgcctc gtttagcgaa 660  
gagggaaatta aagcccagaa tgagcctgcc tctgcgttctc cagtggcaca agccctctct 720  
tgcccacctg gatcctaaca ccggatgtct ttttgtctgg ctttccccggg tatctgttcc 780  
cacggcattt tccctgcctc cctctcccgc ctctcttcag cacacagatc cagaatcccc 840  
atataattct actagacagt agggagaaaat ttcaaccacg aaacgtctct aactttgggt 900  
tcttgatgat tcttagcaaa tgaatgcgtt ataaacatat ttactcactc ttcaactccgg 960  
agagctccctt agtcatgtga aaaaagtgaa atgtatccac gatgacagtgg ggtgtttgt 1020  
tcactcaacta aagagataag ggtggattga attctgttctt ttccctctgtt aacatgttac 1080  
ttttgtcttc ccattccctcc ttccccactc ttctttccag aaaggcactt ggggtcttat 1140  
ctgttggact ctgaaaacac ttcaaggcgcc cttccaaggc ttccccaac ccctaaggcag 1200  
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tgtactgcgtt gggcagttt gcccagctt tkgtaatgc cagtcagttt gacaaccatt 1560  
atgatcaaaa actgccttcc ccagggtgtc tctatgaaaa gcacaagggg ccaaggcag 1620

ggagcaagag tgcacacc aamgctattt gagatttgcg tggaaakctc agattttca 1680  
ctggtagac aatgaaacaa cagagacagt gaaagttta atacctaagt cattcctcca 1740  
gtgcatactg tagtgcattt ttttggtc tggcacctg tttgaaggaa agagagggaa 1800  
aatcaagtgg tattttccag cactttgtat gattttggat gagttgtaca cccaaaggatt 1860  
ctgttatgca actccatcct cctgtgtcac tgaatatcaa ctctgaaaga gcaaacctaa 1920  
caggagaaaag gacaaccagg atgaggatgt caccaactga attaaactc 1969

<210> 156

<211> 400

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (359)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (398)

<223> n equals a,t,g, or c

<400> 156

aattcggcac gagaagaaaag aaagaatgaa agaaagaaaa gaaaagaaaag aaagggaaaga 60  
aaaaggaaag aaagaaagga aagaaaggaa agaaagaaaag agagagaaaag aaagaaggaa 120  
aaggagggaaag ggaattccag gtatatacca ctgcattgtt aaggcaggg ttgtggatag 180  
acatagtta tttgtgggc ccttggttgc caagaatagt cctgcattac ccctgttgc 240  
ctgatgtatattaat actgcctcat tcagtcttaa ataagtctt gttttggact 300  
agaaattata tggctaccyc tttatgtggg actaaaagta attccttgrg acmggacnt 360  
ggagtnaggt gccaaggaa agctagaagg tagtttntc 400

<210> 157

<211> 722

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (720)

<223> n equals a,t,g, or c

<400> 157

catggtttgg taacctcatg cactgtggg atgtcagagg acccccagat aatgcattc 60  
tgccaaagtct gaaaatttgtt cccacaagat ttgattggta gtatatttctt tcatttgtaca 120  
actaaaata tcttcttaatt tccatttttt ttttttgaca tgagttgtat agaaatgtgt 180  
gcttcagttt ctgttatagc aacaacttgc gtcacccata gccttacaaa aattcctaat 240

ttaaatat tt aaattttaga attckacrag cagaattaca aaaagagtaa ctaacaagaa 300  
agtgagattg tgatggata acggaatgtc aagtctaatt gtcagaaaa gacaaaataa 360  
catggaaatg acaatcaaaa tggactaagg acttagaaga tccgaaacta tgaagctact 420  
aaaagaaaaaaca ttgggaaatg ctccaggaca ttggctctggg caaagattc ttgagcaata 480  
ccttaaaagg acaggcaacc caagcaaaaa tggrcagwtg ggwtcmcwtc magctaaaaa 540  
acttctcacac agcgaaggaa acaaagtgaa cagaataaca tggaaatgtt ttctgttaatt 600  
tagtagtaac tggcaatagt ttacaaacac attttgta tactgctgtc attgcactga 660  
ttacccctcg ttgttagtgac tttgttctat tagtccactc aattaaaata tttggtttn 720  
tt 722

<210> 158  
<211> 1200  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (274)  
<223> n equals a,t,g, or c

<400> 158  
taatattcct ttggattcag agacccacaa ctaccagatt gtcaatcatg accaaaagtt 60  
gcttctcatc acttctacaa ccccacaatg gaaaaagaac cgagtgcacag tggatgatgta 120  
tgatactagg gaagatcagt ggattaatat aggtaccatg ttaggcctt tgcagttga 180  
ctctggctt attgcctt gtgctcggt ttatcctcc tgccttgaac ctggtcagag 240  
ttttattact gagaagatg atgcacggag tagntctagt actgaatggg acttagatgg 300  
attcagtgag ctggactctg agtcaggaag ttcaagttct tttcagatg atgaagtctg 360  
ggtgcaga gtcacccatc gaaatgcaca ggatcagcag gttctttgt aaatagtatt 420  
ttgagacact aagatgttcc tactgctacg gratgtattt taaacacata tcgtttctt 480  
ttcttgaaaa aaaagttgt taggaccaca gattgggtt agaaagggtt atatttgaa 540  
atactacaag gtttagacac tccatgaatc gacctgtta ataatttacc atcctgaaag 600  
tccagaatta aaatatggaa gcaagaacta tataattgtat taggatgctt ggttagttt 660  
tttcattgtt caaatattca ttgcacagtg gattgtttt attagttgt atgcttttt 720  
tttaattaat tcagtcttct gttatatttt aagttttgt tagtgcacaca aggaatttaa 780  
ctttttgatt tgtataatag aaaactgaac taggaattgt tagcgggggtt ttgaaggatg 840  
tgtacttcc ttcaaaataa agtggtagat ttcaaaattt tacactagt cagttctta 900  
tattctaagt taaaatgtat ttgtaaaattt attttgggtt tcttctacaa aggaaaaaat 960  
tggatttata tatataaggt tactgcataa tgatttcatt ttgataatgt gcagaatggc 1020  
ctcataagct cacagaaagt aaaaaaaaaa aaaaaaaaaa aagaaaaaat caggattcca 1080  
ctgtttaaa agaaatctca gttttatattt tggaaatataa aatgtgtatt tggatataatgt 1140  
gaccaatttt ctatccccaa aaacacccat tcttagtaat gtcatgaattt aaacacccctt 1200

<210> 159  
<211> 345  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (316)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (321)  
<223> n equals a,t,g, or c

<400> 159  
ttcggcacga gagaaaagta aaaaaaaagaa agaaaagaaaag aaacaaaacaa acaaaaacaac 60  
tggcatacat atatctccta aatacaggaa gaagtattca taatctcaact cttagcatg 120  
gtacaaaagct aaccacaact aawttattgt atataargcc acgtgaagt stgtgtgaca 180  
gccttatttt gtgaataggg ctgagaaaac cagtc当地 tctcctgaga ctatttcaga 240  
ggrgtaaaaa ttgaactcg tttaaaaatc atgrtttatt tacttaatat taagtttagg 300  
ttaacggca gaaaangagg ncctgggg catcacccaa atttt 345

<210> 160  
<211> 476  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (312)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (377)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (421)  
<223> n equals a,t,g, or c

<400> 160  
aattcggcac gagagacacc agagtgaagg agagaggcca tgctgtgtcc gagaagctcc 60  
tactgggtg gaagggacag ctccacaaag gctgctttg cagggctct cctgcagcaa 120  
gggcctgct gactgtcccc agactgtctc ccgacacaga gggatgcaaa ggcagcctct 180  
tcctgcttag tggaaataggg aaatttatatc acctttcaact tcccactctc acttctgccc 240  
ctgctaccct tagtctttgg cttttgctga cattttcccc tcttatctt tctcctgacc 300  
aagttcttagg ntttcatag ggcagtc当地 ggtgagggtt ggaaccccaa tgaagttggg 360  
caacagaaaac ccagctnaca atggctgttc actgtgggca agctgtttcc cttcatctt 420  
ntaaaaagtgg aggtgggtt agtgtatgag tctgggtttc cattcaactg tgtgtg 476

<210> 161  
<211> 520  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature

<222> (512)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (520)  
<223> n equals a,t,g, or c

<400> 161  
aattcggcac gagctgcgcg cggttacagc acggttcggtt tttccttttag tcaggaagg 60  
cggttgggtt gaggttagca tacgtatcaa ggacagtaac taccatggct cccgaagt 120  
tgccaaaacc tcggatgcgt ggccttcgtt ccaggcgctc gcgaaatcat atggctgttag 180  
cattcgtgtat atccctgggg gttgcagctt tgtataagtt tcgtgtggct gatcaaagaa 240  
agaaggcata cgcaagatttc tacagaaact acgtatgtcat gaaagatttt gaggagatga 300  
ggaaggctgg tatctttcag agtgtaaagt aatcttggaa tataaagaat ttcttcagg 360  
tgaattacct agaagtttgt cactgacttg tgttcctgaa ctatgacaca tgaatatgtg 420  
ggctaagaaa tagttcctct tgataaaataa acaattaaca aataaaaaaaa aaaaaaaaaagg 480  
ggggggggcccc tctaaaaggt ccaagcttac gnacgggtgn 520

<210> 162  
<211> 339  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (109)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (334)  
<223> n equals a,t,g, or c

<400> 162  
aattcggcac gagcgccct ccacgcccag ctaattttg tattttgggt agagacgggg 60  
tttcttcacg ttggcttaggc tgatcttcaa ctcctgaccc caagtggnt gcctgcctca 120  
tcctcccaaa gtgtggat tacaggcggt acacccgtcac ccacccatgc tctagtagat 180  
cctaaagaat gccttttagtt cctcttcct gacattactc tgcttaaatt ccccaaggatc 240  
aagcttttg agaattctat ctcagcattt tgggcatcag gccatgttat atataggtrc 300  
acaacttcta ggccttgggtt agttggacag gttaaaaag 339

<210> 163  
<211> 357  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (343)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (349)  
<223> n equals a,t,g, or c

<400> 163  
aattcggcag agcagaacat tggtatgcgg cacatgactg tagatcttct cattaataat 60  
aggcaacctg gtcaggtgca cgartctagg gttcagaatc caacaggctc aaattcaagt 120  
ccagctcagc cacgtggctg atgctgtctg aacctcagcg tcctcagctg taaaacagag 180  
gtaaccatcc ccatctcagc agctttggga ggaaattaaa tgagatatat tggggatcca 240  
gataaccaat aaaatatcaa atcactttac cagttcaagc tcttaccact tcagtgattg 300  
catggccttt atcactgacg gatggaactc aggggttcca gngttcng acccagc 357

<210> 164  
<211> 1079  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (303)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (831)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (993)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1058)  
<223> n equals a,t,g, or c

<400> 164  
ggcacgagct tggcctccag agtgctggga ttacaggtgt gagctaccgc gcccggccta 60  
ttatcttta ctttctaact gagccctcta ttttctttat ttaataataa tttctccccca 120  
cttggaaatc acttgttagt tcttggtagg aattcagttg ggcaatgata acttttatgg 180  
gaaaaaacat tctattatag tgaacaaatg aarataacag cgtatTTca atattttctt 240  
attccttaaa ttccactctt ttaacactat gcttaaccac ttaatgtgat gaaatattcc 300  
tanaagttaa atgactatta aagcatataat tggcatgt atatattaag tagccgatac 360  
tctaaatara rataccactg ttacagataa atggggcctt taaaaatatg aaaaacaac 420  
ttgtgaaaat gtataaaaga tgcattgtt gtttcaaattg gcactrtctt yttttcagta 480  
ctacaaaaac agaataattt tgaagttta gaataaatgt aatatattta ctataattct 540  
aaatgtttaa atgctttctt aaaaatgcaa aactatgatg tytagttgct ttatTTacc 600  
tctatgtat tattttctt aattgttattt ttttataatc attatTTtc tgaaccatc 660

ttctggcctc agaagtagga ctgaattcta ctattgctag gtgtgagaaa gtgggttgta 720  
gaaccttaga gcagtggaga tttgctacct ggtctgtgtt ttgagaagtg ccccttagaa 780  
agttaaaaga atgtagaaaa gatactcagt cttaatccta tgcaaaaaaa naaaatcaag 840  
taattgttt cctatgrgga aaataaccat gagctgtatc atgctactta gcttttatgt 900  
aaatatttct tatgkctcct ctattaagrg tatttactaa aactctgtaa tctccaaaat 960  
attgctatca aattacacac catgtttct atnattctca tagatctgcc ttataaacat 1020  
ttaaataaaa agtactattt aatgatttaa aaaaaaanaa aaaaaagaaaa aaaaaaaaaa 1079

<210> 165

<211> 1325

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1302)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1313)

<223> n equals a,t,g, or c

<400> 165

ttaaaacaag atacatacat agtataacac acctcacagt gttaagattt atattgtcaa 60  
atgagacacc ctaccccaa ttgttcatca gtgggtaaaa caaattctga tgtacattca 120  
ggacaaatga ttagccctaa atgaaactgt aataattca gtggaaactc aatctgttt 180  
taccttaaa cagtgaattt tacatgaatg aatgggttct tcacttttt ttttagtatga 240  
aaaaattata cagtgcctaa ttttcagaga ttcttccat atgttactaa aaaatgttt 300  
gttcagccta acatactgag tttttttaa ctttctaaat tattgaattt ccatcatgca 360  
ttcatccaaa attaaggcag actgtttgga ttcttccagt gccagatga gctaaattaa 420  
atcacaaaag cagatgcctt ttttatgatct ccaaattgcc aactttaagg aaatattctc 480  
ttgaaatgt cttaaagat ctttgcagc tttgcagata cccagactga gctggaactg 540  
gaatttgcct tcctattgac tctacttctt taaaagcgcc tgcccattac attcctcage 600  
tgtcctgca gtttaggtgta catgtgactg agtgtggcc agtgagatga agtctccctca 660  
aaggaaagca gcatgtgtcc tttttcatcc cttcatcttgc ctgctggat tttggatata 720  
acaggagccc tggcagctgt ctccagagga tcaaagccac accccaaagag taaggcagat 780  
tagagaccag aaagaccttgc actacttccc tacttccact gcttttccctt gcattkaagc 840  
cattgttaat ctgggtgtgt tacatgaagt gaaaattat tcttctgccc cttcagttct 900  
ttatcctgtt accatttaac actgtctgaa ttaacttagac tgcaataatt ctttcttttg 960  
aaagctttta aaggataatg tgcaattcac attaaaatttgc attttccattt gtcaatttagt 1020  
tataactcatt ttcctgcctt gatctttcat tagatatttt gtatctgtt ggaatatattt 1080  
atcttctttt taactgtgta attggtaatt actaaaaactc tgtaatctcc aaaatattgc 1140  
tatcaaatttta cacaccatgt tttctatcat tctcatagat ctgccttata aacatttaaa 1200  
taaaaaagtttac tatttaatgaa ttaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1260  
aaaaaaaaagg gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa angggggggg ggnccaaaaa 1320  
aaaaaaaaa 1325

<210> 166

<211> 394

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (316)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (341)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<400> 166

aattcggcac gagtttgcac ccaaattgtt tgacctttgt gcagtggctc ccattatcaa 60  
ctggggaaacc agtacaatct ttaccttagtt actactgagg ttgttctctc tccatcacaa 120  
aatttcatgc tatttatctg tgagaaaatg cctgaggact ttcacacagt aattcatctt 180  
atctggaacc cttaggatca gatgttagacc gagcaaatgt caagttcaca gagaacacacct 240  
gtgtcttcag aacattaaag ggcaccatta gagttgttt cccttcaccc tacatgcaca 300  
tttttgsat aagttnnnnnn ctkratgatg ttgtcatags naatactgct agratgrttg 360  
ctgtactcat tcactnccaa aaaaggggg gntg 394

<210> 167

<211> 517

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (122)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (215)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (400)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (401)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (472)  
<223> n equals a,t,g, or c

<400> 167  
ataattgcgg ctctttctcc tattcagatt ttacccagtg atggaaaaga tcaattttct 60  
tgtggaaatt cagtggctga ccaaggcctc cttgattctc tctcagccag cacagctcag 120  
gncagttcgt cggtgcgcag caacaatcac caggtacgtc tcacttcctc cttctggatg 180  
tggctggctt tacggaaaaac agagcgtatt tgtgnaaggc ttgtgatgca ttatagctat 240  
tgccattccc caaaaagcaaa aacaaagtcg ctttaggttg ttctgtggca tttctgttgg 300  
gtactaaca aaaaaatcacc tgttwagcct gataatgact gtttgcaaat ttattataag 360  
agaaaaaggca gggatttgag ggttgctttt aggaagtctn nccatgatat ggaacacaga 420  
ccccagaaaac ttgcaaatac cctcttaggt taaggcatgg aaagaggagg angagagagg 480  
tcttgttgt tgaggaggtc catgtcaggc cttggcc 517

<210> 168  
<211> 341  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (335)  
<223> n equals a,t,g, or c

<400> 168  
cttccctcag cccttggcca acagcattct actttctgtc tctacggatt tracacttta 60  
gtagcctcat gtaggaagaa tcataatact tgtyttttg tgactggctt atttcactta 120  
gcataatatt ttcaatgttc atccatttg aagctccatg tgagtggca ggaacctgtt 180  
aactggaggc cttcaactgag aagtgattaa ggtgatgaat acctgccagt gcagttggctt 240  
cacacctgtt cttcagcact ttggggaggc caaggcagga agatcatttg agccccagga 300  
tttsgggacc accttkggca atatagtgag acccnngtgtt t 341

<210> 169  
<211> 350  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (293)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (305)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (311)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (314)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (338)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (343)  
<223> n equals a,t,g, or c

<400> 169  
ttcggcacga ggtcttgact cctacccccc tacaacacat ataaaatcag ttccagatag 60  
atcacacatc taaatgtgaa atgcaaaata ataaagctt aaaaaaaaaa gtaatggaac 120  
catcttcatg atcttagagt aagtagagat ttattaagta ggatattaaa ggaacactat 180  
aaattttaggg aaaaaatcaa tatattgatt atattaaaat taaggaacct ttcctcatta 240  
agaggccaca aagtatttgt agtatacaca tccaacaaaa gttccatatt ccngaatwtw 300  
tgganggaat nccnatggta cgtaaaaaaaaa aggccagncc canggggggg 350

<210> 170  
<211> 441  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (111)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (143)  
<223> n equals a,t,g, or c

<400> 170  
aattcggcac gagacatggt gaacctggtc tctacataaa atacaaaaac ttagatgggc 60  
atggtggtgt gtgcctatacg tcccactact tgtggggcta aggcaaggagg ntcacttgag 120  
ccccggaggt cgaggctaca gtnagccaag agtgcactac tgtactccag ccagggcaag 180  
agagcgagac cctgtctcaa taaaataata aataaataaa aataaataaa 240

aaaaaaaaaa caaagttgat taagaaagga agtataaggcc aggcacagt gctcacacct 300  
gtaatccttg cattttggaa ggctgaggca ggaggatcac tttaggcctg gtgtgttcaa 360  
gaccaggctg gtcaacatag tgagacaytg tytytaccaa aaaaaggaag gaagggacac 420  
atatcaaact gaaacaaaat t 441

<210> 171

<211> 403

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (399)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (401)

<223> n equals a,t,g, or c

<400> 171

ttttcatgaa cctttccctt gggaaacctt atgactcaac agtcaaagg gtccgaatag 60  
taaagatgg ttcagtat caggctgtg cccatgcctg gccttggata gactctgaaa 120  
tgagattctt tgtttGattt atggggtagt gtttctgtt gtgtacattt gaaggaaacc 180  
agtttccccca cccaaaattt ctaaggagtt taatcttgg ggtrtaggg agttaaaacta 240  
caactgagtca aggaagtaat tgattgcata tttcctctaa aagtcaagcta tggrrtgata 300  
ttgactaaaaa caaactagca gttctcttcc accaccaagt cmgagcgct gttcaccatt 360  
ctgcatggtt aaaagracc accatggat gggtaatgnt ncc 403

<210> 172

<211> 984

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<400> 172

caagatattt acttccgctc caaacaaaga tgggccagct aacgagcncc gggaaacat 60  
ccgccccggaa gccacttga aggcaacttcc gccctctt aacatggagc cggcggagg 120  
ggtgtgttagg gccggggcga taatggggcgtc tgccaggctg gagctaaacc tggtgccgt 180  
gctatmccgc tgcgaggcga tggcagcggaa gaaacgggac ccggacgagt ggcgcctgga 240  
gaagtaeagtggagcccttag aggacatgtt gcaggccctg aaggtccacg cgagcaaaacc 300  
ggcctctgag gtatcaatg aatattccctg gaaggtggat tttctgaagg ggatgctgca 360  
agccgagaag ctgacctcctt cctcagagaa agcactggcc aaccagtcc tggccctgg 420  
ccgtgtgcca accacagcca gagagcggagt gcccggcaca aagacgggtc atctgcagtc 480  
acggggcggc tacaccagcg agatgcggag tgagctacta ggcacggact ctgcagagcc 540  
tgaratggac gtaaggaaga gaactggagt ggcagggtcc cagccagtga gtgagaagca 600  
gtcggcagct gagctagacc tcgtcctgca ggcacatcag aacctccagg aaaagctggc 660

ggaagagatg ctaggactgg cccggagcct caagaccaat accctggccg cccagagtgt 720  
catcaagaag gacaaccaga ccctgtcaca ctcactgaaa atggcggacc agaacctgga 780  
gaaactgaag acggagtcag agcgtctgga gcagcacacg cagaagtcag tcaactggct 840  
gctctggcc atgctcatta tcgtctgctt catttcatt agcatgatcc tcttcatatcg 900  
aatcatgcct aaactcaaat aaagaccccc gcccaaaaaa aaaaaaaaaa 960  
aaaaaaaaaa aaaaaaaaaa aaaa 984

<210> 173

<211> 1194

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (110)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1153)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1175)

<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (1192)
<223> n equals a,t,g, or c
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<400> 173

cggcgcgna anntantggc cccccccctaa agggAACaaa agctggagct ccaccgcgt 60  
ggcggccgct ctagaactag tggatcccc gggctgcagg caaaAGGGan aattcaaaat 120  
tttagaaaaa cattagaaat gttaatatgg gatattttt acttaagaca ttcagaaaag 180  
ttaatgttt aacacgatat gtgattatag aattctattc atatatgtgt tcacatttat 240  
acactttgct atactttgta ttataaaata taattctgtt agataaataa gtgattcata 300  
ttttgtcaaa actatTTAA aatttcaata ttAAAatat tttgaatca ctggTTTcg 360  
ttaagtggca tcatagrtga gatttgattc catgtagcat ataattttag attgtccctc 420  
tctcacccct tttaaactcc ttcaaggcatt gctattactg gggttgcctt tgggaaaact 480  
tacttctaga tactaccata tatctgaaat agtagaggtg gatgttaata aaattcataa 540  
aataatcatg tattacttt tttgatttac cactggaaagg aaatacagtc atgtgcaata 600  
taatgacgtt ttggcattt agaccccacat gtgtgacagt ggtcccataa ggttgtgct 660  
aaaaaatcc tgTTGCTGCC tagtgacact gtagccatcg taacGCCata gcacgcacag 720  
ttactcacct gttcatggtg atgctgggt aaacAAACCT gtgtgcctt tcatacaaaa 780  
gtatagcaca atgacaatta tgtacagtt atcataattc ttgataataa atgactatgt 840  
tacaggtta tgtattgatt ccacttttgc tcattatTTT ggaatgtact cctactaatt 900  
ataaaaaaaga aaaggttaac tgtaaaaaaag cctcaggcag gtcctttagg aggcatcca 960  
gaagaagaca ttgttaccat aggagatgac agctctatgt gtgttattgc ccctgaagac 1020  
cttctagtgg gacaggatat ggaggggaaa gacagtgaca ttggtgatcc tgaccctgtg 1080  
taggccttagg ctaatgtgtg tggccttgc ttttaacaa gaaagtttaa aaagtaaaaaa 1140  
aaaaraaaaaa qgnctcqaga aqqqcaaaa qqqcnccttqg qcaaattqgca qnac 1194

<210> 174

<211> 701

<212> DNA

<213> Homo sapiens

<400> 174

gcttccactg atcttgccca tctgatgtta ccatgtttgt tgtaaaggaa gagactggca 60  
ttctggacaa ctggcatcg agactggctg acatggagaa cccactctgt gtgtgctgag 120  
grcagggcac tcaccagtgc agaggcagaa gtgggtgcct gtcctcgagg gttaaccgc 180  
tttgcctccc gcccacagcc cctccacctt ctaaaagctc aagagatgat cagactgaaa 240  
cccccgccca tcttgctgtt ctgccttaggc tggaagacct ggcccaggc atggaggccc 300  
ctgctccact tgccagattc gcaggagctc tctgaccaga gctgtcgac cttgctgctg 360  
ccactggcac tgctgccatt ctcatcctt tgggggcctt cattgggtgcc acatttttg 420  
tagccacctg ggctgtcagc catgaggaa ggaccctcg ttttagtctcg gattgttaagg 480  
tttccatctc tgtaccttct cacaaagaag agtcaggccc caagcttaat gacctttttt 540  
ttaattcagg aaggtaaatac tcgttctctc gtcacaccccg gaattacagg tccattgtc 600  
ctcagtggga gttgatctt gattcctaca aagaacaata aagtccgggt aattccata 660  
aaaaaaaaaaaa aaaaaaaaaact caaaaaaaaaa ccccccgttaac c 701

<210> 175

<211> 1181

<212> DNA

<213> *Homo sapiens*

<220>  
<221> misc feature  
<222> (7)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (24)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (79)  
<223> n equals a,t,g, or c

<400> 175

tgggganatt tccccgaacc ggcnttcccg ggtcgaccca cgcgtccgac gacgcgtggg 60  
ccaaagtgtt gtgtgtgtnt gtgtgagttgg gtgcgtggta tacatgtgt catatatgtta 120  
taatatataat ctacaatata tattatataat atctatataca tatttctgtg gaggggttgcc 180  
atggtaacca gccacagttac atatgtattt ctttccatca ccccaaccc tcctttctgt 240  
gcattcatgc aagagtttct tgtaagccat cagaagttac ttttaggatg ggggagaggg 300  
gcgagaaggg gaaaaatggg aaatagtctg attttaatga aatcaaatgt atgtatcatc 360  
agttggctac gtttggttc tatgctaaac tgtgaaaaat cagatgaatt gataaaaagag 420  
ttccctgcaa ccaattgaaa agtgttctgt gcgtctgtt tttgtctgtt gcagaatatg 480  
acaatctacc aactgtccct ttgtttgaag ttgttttagc ttggaaagt tactgtaaat 540  
gccttgcttg tatgatcgac cctggtcacc cgacttttggaa atttgcacca tcattttca 600  
gtgaagatgc tgtaaatagg ttcagattt actgtctatg gatttgggtt gttacagtag 660  
ccttattcac ctttttaata aaaatacaca tgaaaacaag aaagaaaatgg cttttcttac 720  
ccagattgtg tacatagagc aatgttgggtt tttataaag tctaagcaag atgtttgtt 780  
taaaatctga attttcaat gtattttagt acagttgtt taacggcagt gtcattcccc 840  
tttgcactgt aatgaggaaa aaatggtata aaaggttgcc aaattgctgc atatttgc 900  
cgtaattatg taccatgaat atttattttaa aatttcgttg tccaatttgtt aagtaacaca 960  
gtattatgcc tgagttataa atatttttt ctttctttgt tttattttaa tagcctgtca 1020  
taggttttaa atctgctta gtttcacatt gcagttagcc ccagaaaatg aaatccgtga 1080  
agtcacattc cacatctgtt tcaaactgaa ttgttctta aaaaaataaa atatttttt 1140  
cctatggaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 1181

<210> 176

<211> 489

<212> DNA

<213> Homo sapiens

<400> 176

aatcgctgaa ccaggagcgg agttgcagga ggagaytcac cactcacttc agcctggta 60  
cagrgggagc tctktcttaa aaaaaaaaaa aaaatcatct gtaaaataaa ttccgggata 120  
gtcggtttgt tcaaggaaat gtttgtaaa ttgagctcac actatataat ctttattgtc 180  
ctatcctgat gtataataca gcaggtataa ttacaccaag cgctataggataaaatatgg 240  
catgaagtga actatggcct ttatattcct tccagtgtga acacagcagg tgtgagatgt 300  
catcttgaa gacaggcctt gcagaaatag gcctacatcc aaaatattat cttgtgactc 360  
catgaaccat tcattaaccc ttgttatctt tgagtgaaaa ttttactcaa aagttgcattc 420

tggaaagttcg aagaaaattac ttgaaataaaa aataaaagatt tctatataaga taaaaaaaaa 480  
aaaaaaaaaa 489

<210> 177  
<211> 253  
<212> DNA  
<213> Homo sapiens

<400> 177  
aattcggcac gagcccgww caggcacaca ggcccagggtg tgttaggccac agcagccgca 60  
gtcctgaaaag sctgcaacac ccagacctcc aggagagacc aggcccagga tgcctcgct 120  
gttcttggttc cacctgctag aattctgttt actactgaac caattttcca gagcagtgc 180  
ggccaaatgg aaggacgtatg tkattaaatt atgcggccgc gaatttagttc gsgcgcarat 240  
tgccattttgggg 253

<210> 178  
<211> 393  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (214)  
<223> n equals a,t,g, or c

<400> 178  
aattcggcac gagagcttat tcattgaagg agtaagtggc tgctcaactcc tttctgctga 60  
aactcttcc tgccttgta gcctagtgtg gaatgggagc agggtcacag tgaaagagct 120  
gaatctcccc acccacccac actgcagcag gctgcggctg gccgacttgt taattgccga 180  
gcaggaacac agcagcaagc tgcgggacc cctnacttgc tacagttgat ggctgtgtgt 240  
ctctcccagg acctagagaa aacccgscctt gtgtacgagc qcatcaactat cggcacattg 300  
ttcatgtcct tcatgaacgr gtaaaactgct gttccgtgg rttttcaaaa aaaaaaaaaa 360  
aaaaaaaaaa aaaaaaaaaaag ctcgagggtg ggc 393

<210> 179  
<211> 465  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (377)  
<223> n equals a,t,g, or c

<400> 179  
attataagcg acgatggttc tggctatg aacacagcag tcggcccttg tcattgtcca 60  
cccaggagtg gcctgttaa ttccaagttgg catgtatctt ccctctgagc ttcatgttctt 120  
caagatgttc tgggtgggtgg gatgggagac catcctgcag ccctccctcag accttatcaa 180  
ttcattgaga gattgcaaag ctgaaagcac ctccggccac ttctgggaga cagacccttt 240  
ggtgatgaaa taaaccagtg acttcagagc ctatgtctc aactgtgtttt gaaaaacact 300  
gtctctgaaa acaactttgtt gattctccctt gtcctgtg gacaaaagca cataattctg 360

ctgttacggg tacttgnstc atacgagctt tcatgttcag catgcaatgg aatcatgctt 420  
gtccatgtga aataaatatg gctctctcg 465

<210> 180

<211> 532

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (140)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (496)

<223> n equals a,t,g, or c

<400> 180

cttgggttca gggaaaccag agattatacc aagacgggtc attctgcgcc atggaaaaca 60  
tccttgnat ttaattgctg ctgacaataa aggttaaggc tgggcttgg 120  
cccagataga gatgctagan aaagtgcata gctatgggt gcacagctct gtttgccttc 180  
atcattgtaa cccgtagaaa gaaaacttga gtaaggtcaa gtttccatg ctttccttaa 240  
agtgtggagc cttttattcc atgaaaaggt tataaaaaa tccaggttat caagcaaata 300  
aacaagcagt tcttacttcg ataaaacaaga tacacccctt caccctaccc gctcaatttc 360  
tctttctcca cccccccaaa cccacctcca ttgttagtcc tgcaggggtt cccgtaagyt 420  
tattttgaaa atcaacttaggg tgggctkggg cgcggtggst tcaggatgtw aatycagca 480  
ctttggggrrg ggcccnggga aggcaattca ttttgggttc aaggggtttt tg 532

<210> 181

<211> 814

<212> DNA

<213> Homo sapiens

<400> 181

aattcggcag agtaaaaattc aaataattat aagcatttgg caaaaacaag agaaaagaaa 60  
cttgcatat tttacaagct gcaattttag aaaagcttta acttaatgtat agtttatca 120  
ttgtttctt gtcccaaact tatccaggc catagaagta tgaatctaataa taaaacagaa 180  
atggaaatta ttgcacagaa atggaaata actaattttaa aatcagtcaa attggcttct 240  
tattaaatac aataattctt atgraaatca tagtacccta ttttcagaca cagctgccag 300  
tttacacatt tctcagtgatc ctgaarggra aaaagtatacg ccccrcttactatgtaaa 360  
attaccaata aaatattttt atgactacag attttgcatt ttgtttaca actatattaa 420  
gagttttatg ttgtatattg aatttcaacc tagaaaccac acagtactta aatttcctg 480  
gggtctcctg ctttcctta accatttgc taatataat ctacctaaag gagacttctg 540  
aattgttaat gaacttaaaa atagaatgtg gatgaaaaat atcacataag acatcatgat 600  
aacatttgaa gaaaaataa aactgttagac cctaacagtt gtgatatttgc 660

gtggtaatgt aattttctgk ttaattacag tacttttac aggcacagt gkactgtctt 720  
ttttgttaga tgcyagttgt gaaatacaat taattgcata cagtaaaaagt ctgtgattaa 780  
aacatttata tacctcaaaa aaaaaaaaaa aaaa 814

<210> 182  
<211> 317  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (315)  
<223> n equals a,t,g, or c

<400> 182  
taattcggca cgaggaacca ctgttcctta caggttaagcc agcatgatag ttagacccaa 60  
ccatcccaat agagacttgg catgcattca acaaacatcc caggtgccta gggtgtgccc 120  
agcaccattc caggagctgc cagtaaagga aacaagactg ctgtgtggcc aggtgcggtg 180  
gctcacatct gtaatctcg cactttggga atgccgaagt gagtggatca cctgaggtca 240  
ggagttcaag accagcctgg gccaacatgg tgaaacccca tttttactt aaaaaaaaaa 300  
aacttggggg ggggncc 317

<210> 183  
<211> 243  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (169)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (181)  
<223> n equals a,t,g, or c

<400> 183  
tataaaagaa aaaaaaaggc tgtacaaaaa tttcttttac acagagactg trtaaaagaa 60  
aaaaaaaaag aaatacmtgt gttctaaaaa ccatttgtat attttcattt ctagaccaca 120  
ctgttagctaa ttattgttat taaatgttaa gataatttaa gtatataana taagtattga 180  
nccggggcatg gtggctcacc cctgtaaatc tcagcacttt gggaggctg aaggcgggg 240  
gtt 243

<210> 184  
<211> 1148  
<212> DNA  
<213> Homo sapiens

<400> 184  
aattcggcag aggggccata caaaaatttt ggacttggta ataccactta ctaaccgggc 60

ctgtaacact gggctaaaca aagtaagccc tgtttactca gcagtgttg ggggacatga 120  
agattgccta gaaatattac tccggaatgg ctacagcccc gacgcccagg cgtgccttgt 180  
ttttggattc agttctcctg wgtgcatggc ttcccaaagg agtggagctg tragtcttt 240  
ggaattgtga acattcttt gaaatatggc gcccagataa atgaacttca tttgcatac 300  
tgcctgaagt acgagaagtt ttcgatattt cgctacttt tgaggaaagg ttgctcattg 360  
ggaccatggc accatatata tgaatttgc aatcatgcaa ttaaaggcaca agcaaaatat 420  
aaggagttt tgccacatct tctgggtgct ggatttgacc cactgattct actgtgcaat 480  
tcttggattt actcagtcag cattgacacc cttatcttca ctttggagtt tactaattgg 540  
aagacacttgc caccagctgt tgaaaggatg ctctctgctc gtgcctcaaa cgcttggatt 600  
ctacagcaac atattgccac tggccatcc ctgacccatc tttgtcggtt ggaatttcgg 660  
tccagtcataa aatcagaacg tctacggctc gacagttata tttagtcagct gccacttccc 720  
agaagcttac ataatttattt gctctatgaa gacgttctga ggatgtatga agttccagaa 780  
ctggcagctt ttcagatgg ataaatcagt gaaactactt aacacagctt attttttct 840  
ctgaaaaatc atcgagacaa aagagccaca gagtacaagt ttttatgatt ttatagtcaa 900  
aagatgatta ttgattgtsa gataggttag gtttggggg gccagtagtt cagtgagaat 960  
gtttatgttt acaactagcc ttcccagtaa aaaaaaaaaa aaaaaaaaaatt gtaaacatca 1020  
cttattttac ttatttgtag cttcatcacc agtacattat atgttgcata atttattttac 1080  
ctgatcattt tgatcatttt ctgctttattt ttgctaataa actgtgatgt tacttctaaa 1140  
aaaaaaaaa 1148

<210> 185

<211> 1971

<212> DNA

<213> Homo sapiens

<400> 185

gtacttaac aattcmcart actatagtay tggaaattgt taaaagtaca ttccctctgaa 60  
agataagaat cactggcttc tatgcgccttc ttttctctca tcatacatgtt cttttacccc 120  
agtttcctta cattttttta aattgttca gagtttggttt ttttttttagt ttagattgtg 180  
aggcaattat taaaatcaaaa ttaattcattt caataccccc ttactagaag ttttactaga 240  
aaatgttata cattttattt ttcttaatc cagttctgca aaaatgacatc ataaattttat 300  
tcatgtacaa tttgggttac ttgaattgtt aaagaaaaaca ttgttttga ctatggagtt 360  
caactcaaca tggcagaacc atttttgaga ttagtgcatac acaggttagt aaacagctt 420  
agaattccaa aaaaaaaaaa aaaaaaaaaa aaaaagcaaa actgggtttg ggcttgcctt 480  
taggtatcac tggatttagaa tgagtttac attagctaa actgttttga gttgtttgga 540  
tgattaagag attgccatattt ttatcttgc agaacttagt gtaaaacatc caagagcact 600  
aggattgtga tacagaattt gtgaggtttg gtggatccac gcccctctcc cccactttcc 660  
catgatgaaa tatttgcataat aaatccgttata tatttagata ttatgtctgc catgtaatca 720  
gattttatata attgggtggg gcaggtgtgt atttacttta gaaaaaatga aaaagacaag 780  
atttatgaga aatatttgc ggcagtttac tctggccaac ttttgcataat ttgttatttct 840  
acaagttcag aatattttaa acctgatattt cttagacccgg gaattttcaaa catggctaa 900  
ttatatttactt aaagacatag atgtgaaaat tttaggcaac cttctaaatc tttttcacca 960  
tggatgaaac tataacttta agaataatac tttagaagggt taattggaaa tcagagtttgc 1020  
aaataaaaact tggaccactt ttttgcataactt cttctcaattt gacatttttag ctatataata 1080  
tgtacttttgc gtataacatc aagctttaac aaatattttaa agacaaaaaa atcacgtcag 1140  
taaaaatacta aaaggctcat ttttataattt tttagatgt tttaaataatg ttgcaatgg 1200  
ttaaaaatgtga tgatattttttt ttttgcataat ttttgcataat ttgttatttct 1260  
ttttgtatcctt ttttgcataat ttttgcataat ttttgcataat ttgttatttct 1320  
tatatgtttt ttttgcataat ttttgcataat ttttgcataat ttgttatttct 1380  
aaatcataca gctgtgaaga cttgccttgc ttttgcataat ttttgcataat ttgttatttct 1440  
tgagttatcctt aagttactgtt gaaaaatgtt cacttctcc tttaaggctt ttttgcataat 1500

tatataagga ctggaattgt gttttaaag aaaaggcattc aagtatgaca atatactatc 1560  
tgtgtttca ccattcaaag tgctgttag tagtgaaac taaaactatt taatgtcatt 1620  
taataaagt accaaaatgt gttgtgtct ttattgtatt ttcacagctt tgaaaatctg 1680  
tgcacatact gttcataga aaatgtatacg ctttgtgt sctatataat ggtggttctt 1740  
ttgcacattt agtatttaa tattgagagg tcacaggtt ggttattgaa tctgttatat 1800  
actaaattct gtaaaaggag atctctcattc tcaaaaagaa tttacatacc aggaagtcca 1860  
tgtgtgtttg tgttagttt ggatgtctt gtgtaatcca gccccatttc ctgtttccca 1920  
acagctgtaa cactcattt aagtcaagca gggctaccaa cccacacttg a 1971

<210> 186

<211> 366

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (349)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (353)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<400> 186

aataacaatg taattatTTT yggcakascc ttgcctgact tctgaggacc tcactaagtc 60  
tagttcttagc cttttagaa tggtaactt ctttcatcaa ggctttgggt tcattactgg 120  
tgtctgaatt agttccactc ctagcttgc ccagatttttta gtttttattttt tggatTTTT 180  
cttcaaaactt gtttatttttta tattaagttt tcattttgg cagcatatgg atgatTTTat 240  
ttttataaat catactcttt agtaaactaa tggktaaata atattaagttt ataagaggct 300  
aaaattgggc cagggtgtgtt ggctcacgccc tgtaatccc cgcaCTTNG ggnggctgag 360  
gcaggn 366

<210> 187

<211> 350

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (341)

<223> n equals a,t,g, or c

<400> 187

aattcggcac gagaaagagt tgccaaaaat aaaaaatattt attgttaaggt aaaaaatttc 60  
ataaaatgggc ctaatagtgg gatggatata actgaaaact aagatggta tgaggaagac 120

agtcaagaat aaatatatacca aagtagcaaaa gaaataacctg tgcaagtaga atagcttgct 180  
tcaaacagat gagatttgc ctcccaacat caaaacatat cacaaaacta cagtaattaa 240  
gtcccttga ggcagcact gactgggrta agcaaatagr taaatggat gtaacaggcc 300  
ttatttcaac taatagggtt ttcaccactc ctagttggtt ncctgtttcc 350

<210> 188  
<211> 375  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (27)  
<223> n equals a,t,g, or c

<400> 188  
aattcgcac gagtgtaaac accttnata caaatgccat catcccattt ttactgatta 60  
gaaaaacttt gctattaata ggtgcaaagt ccatttcagg tataatttgtt aaggaactga 120  
gtgcactcat gggaaagaaac cttgtttgtt ttttgttgc ctttcttct tatccccctt 180  
tctcagttt atggctggag acatgattta ttgcagccat ccatcttggg ggctcatcca 240  
tcacaccgg gttgcttagga gattgtggca gcagctgtt gctctgaatc agacagaaaa 300  
gttgtcaatc atcaaaggca ggtgaatagc attagaaaaca cgstattgtc agacggaata 360  
attaatcaaa gagag 375

<210> 189  
<211> 365  
<212> DNA  
<213> Homo sapiens

<400> 189  
tcagacaaaa attctgtgga cagctgcgag gaattcactt tccctctgaa actcatagcc 60  
ctctcctgaa tacatatggt gtgcactaac acttgcattt atctgaaact catagcccta 120  
tcctgaatgc atatgctgta ggttaccact tgccattgga ggtcttggag gccatatacct 180  
taggagcag gtagccatg ggacttaact actattatcc cccaaaaatg ttgtgtttgt 240  
gaattcacct gactgaggaa tccctaaawta ttcatcagat atttcaaaag grtccatgtt 300  
ccmaagrarrg rggtttagta ttgattttt gttgggtttt gtttatttga ggcagtgggg 360  
gatga 365

<210> 190  
<211> 817  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (778)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (791)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (801)

<223> n equals a,t,g, or c

<400> 190

ggcacgaggt taatttgaa acttatgctt aagatttaac cagggcagag gcatattca 60  
gcataaataa tgtgccatt ataaactctt atccttccta tctcaacagg aaatgagcaa 120  
ttattgcttc atgcttcaat gcactgttt aaaatactgt ttaatttgtt aaaggtgtga 180  
actgtttaat ttatctcaca cgttttta aacaaatact gattggacat gcgctgcacg 240  
ccaggcttg ggcttggta ctcagggttc tcacagggga ggctggaagt ggaaacaagc 300  
acatgtgtaa ctgttggta gacagtctaa ttggtagaaa atcagcgaac aaagaagcag 360  
acaaattaga aaatgaacgt aaggtagatgt gctaaaaaga gggtagccat tatgtcagtg 420  
tccttcagag aaggtagcac tccctgagac cggaatggca gaaagaagt catcctgcct 480  
agcccagctt ggacttggta agaagcaggc tgataaaaga accaaatatt gtacatttg 540  
aagaagttgc ccgctgactt gagagagagg tggcggtt caggtgctga atgtccctat 600  
aaaaagttga atatttcgag catctctatc aatacatttg aatgctgaga gctttccctt 660  
ccagaagctc atgtcatttt caacacacac ttcttattac ctttatgttag tttctaaaaa 720  
ttgaaaacca gaattggagg ttttttaaa aaaaaaaaaa aaaaaagccg aggkgggnaa 780  
agtamaaatg ngcctkwgcc ntcccttcc cccgtcc 817

<210> 191

<211> 590

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (569)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (573)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (577)

<223> n equals a,t,g, or c

<400> 191

aattagaaaag tccaaagtgc acccaaattgg atattatggg cagaagtatg gtagagcaat 60  
ccaaacaatt gggattatga atgggaaggt tgtaaaccctt atattatttg cgtgtacgaa 120  
ggaagaatcc tggacaaggc acttaactcca aatgaggtct acagttatac caagtggata 180  
gtagaactt tctactggat ttccgttagta ttgatgtga aattacagaaa gccaaatcag 240  
ggactgtac tccacagaga tcgggatcag tttagcaacta tcgatctgc caaaggagtg 300  
attcagatgc tgaggctcaa ggaaaatctt cagaagtttc tcttacctca tctgtgacct 360  
cacttgactc ttctccctgtt gacctaactc caagacctgg aagtcacaca atagaatttt 420

ttgagatgtg tgcaaattctt attaaaatttc ttgcacaata aacagaaaaac tttgcttatt 480  
tcttttgcag caataagcat gcataataag tcacagccca atgcttccca ttgtaatcca 540  
agttataacct aatttttaac cgggggttng ggnnttngga ttgcaatttg 590

<210> 192  
<211> 308  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (285)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (302)  
<223> n equals a,t,g, or c

<400> 192  
ggcacgagaa ataaccagct gacagcatga cgacaggata aaatccacac ataccattac 60  
taaccttaaa tgaaaatggg ctaaatgctc ccattgaaag acacggggca agctggataa 120  
agaaccaaga cccactggag tatgctgtct tcaagaaacc catctcacat gcggtggcat 180  
acataggctc aaaataaaagg aatggagaaa aatatttcaa gcaaatggaa aacagaaaaaa 240  
agcagggtt gcactcctac tttctgacaa aacagrctwt gcggnttaaa ggtkaaaaaaa 300  
gnggaagg 308

<210> 193  
<211> 343  
<212> DNA  
<213> Homo sapiens

<400> 193  
aattcggcac gaggcctgga gaacctatgg tgatttcctt gggcctgctc attgcccacc 60  
attgaaccaa tcagcacaca tgtcctctt tctgagccca taaaaaacctt ggactcagcc 120  
agactcacac agacatcagg actaccagct gcgggaagga gctagccatc tcaggtctcc 180  
ttgaatcatc cagatgacct gcctgtggaa aggagctacc catcacaggt ctactcctg 240  
atgagaactg gacattctt ggtatgacttg cctgcagaaaa ggagcgcacat attttggtc 300  
tyctgagagc tgttctgttgc ctcaatgaag ttccatgc cag 343

<210> 194  
<211> 690  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (59)  
<223> n equals a,t,g, or c

<400> 194

aattcggcac gagaggtgat atacatgata cattctcaag agttgcttga ccgaaagtta 60  
caaggacccc aaccgccttg tcctctctac ccacagatgg ccctggaaat caattccctca 120  
ggaatttgc tcaagaactc tgcttctgc ttgcagatg gcatggtca tgtcattctg 180  
aggtcacata acacataaaa ttagttcta tgagtgtata ccatttaaag aattttttt 240  
tcagtaaaag ggaatattac aatgttggag gagagataag ttataggag ctggatttca 300  
aaacgtggtc caagattcaa aaatcctatt gatagtggcc atttaatca ttgccatcg 360  
gtgcttgtt catccagtgt tatgcactt ccacagttgg acatgggtt agtatacgca 420  
gacgggttcc attattattt ctcttgctt tctcaatgtt aatttattgc atggtttatt 480  
cttttcttt acagctgaaa ttgctttaaa tgatggtaa aattacaaat taaattgtta 540  
attttatca atgtgattgt aattaaaaat atttgattt aaataacaa aataatacca 600  
gattttaagc cgtggaaaat gttcttgatc atttcagtt aaggacttta aataaatcaa 660  
atgttaacaa aaaaaaaaaaaa aaaagtgcac 690

<210> 195

<211> 237

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (222)

<223> n equals a,t,g, or c

<400> 195

tggaaatctgg ctagaaagca gtaataaaca gaaatctgta tatgtttgga aaaagtaaat 60  
ctcaatggaa atcagaaaat atttgaact gaaatttggt gatgaaaata ctatatatgg 120  
aaacttgtgg gatatattat agctaaagct gtgttagagg aaatttagag ctttacataa 180  
atacatatat tataaaaggg aaaatattaa aagttaatgg anctaaggca tccatct 237

<210> 196

<211> 267

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (261)

<223> n equals a,t,g, or c

<400> 196

ccccgagagta gacacatctt agtatgtact cagcttggg caaaaanatac atggcgac 60  
ctttctcgc atgctgact ccatagtaga ttgaggactt gggttggaaag cagtaaggta 120  
atggccaaag ccccattatc aggtgggtac acatagagct ttggggagga acagatgcca 180  
taagttatca gtttagtctt accttcttt tagagggaaa agaagttgga gaaagcgtct 240  
gcagctaaca aaaggtactg nccttgg 267

<210> 197  
<211> 443  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (406)  
<223> n equals a,t,g, or c

<400> 197  
attgccaa ataaaatgg aactttcaag caaaaatgca aattttggaa aatgtgttat 60  
ttctgccact gagaacataa cagcatacca acacttttag actttttact tttatattgt 120  
ataatgaatg catcaacatt tggatgatct gtattacagg tgaaccaaca tttccagta 180  
ttagtggtgg ggaatgaccg tgtcwgaagg cttgaccagg atggggatag ctcaaggagg 240  
caggatggct cattgcttat gtcttctca ggaacacaat gaagtagggt gagttccag 300  
gatttgcccc ctgcattggg gatggttgga ggaaaggcca aaaacctagg ttcttgcags 360  
ccatgggctt taaaaaacgt ggtactttt aaggaacagg gttcanggca ggggtgtttt 420  
tggggctagg gttaaggaaa atg 443

<210> 198  
<211> 208  
<212> DNA  
<213> Homo sapiens

<400> 198  
gaaaatgtgc cttttcagt tgtcacagmt ggggaatgtt actggcatcc ggtggtaaa 60  
ggctaggat gctgctagac attctacggt gcacaggaca acccccacaa caaagaatta 120  
tctagccaa aatgtcaaca atgctgaggt tgagaagycc taggaaacta aaacagtgtg 180  
ggggtttcta atttatttggaa aaccatgt 208

<210> 199  
<211> 258  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (160)  
<223> n equals a,t,g, or c

<400> 199  
atgggtttg gccatgacac tgatttcctg gaggcaaggt gctgcttcya ttcaggaatg 60  
gggggtgcattt actgcccctga gcagccaagg agccaattct ttaggaggct gagtgccatt 120  
tcagctcaag ctttcacggg gcagggccaa aagcaacttn gaggggtggg tggagcatct 180  
tccactgcag ctggggccca agaaataggw tttttttttt gttttttttt tggatgggtg 240  
cgcaacaatt tggggggg 258

<210> 200  
<211> 893  
<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (870)

<223> n equals a,t,g, or c

<400> 200

aggggttagtt tccacaatct aatccgggtg ccatcagagt agagggagta gagaatggat 60  
gttggtagg ccatcaataa ggtccattct gggcagttac tcaactgcgg ttcaacaatc 120  
gcaagaggaa ggtggagcag gtttcttcat cttacagttg agaaaacaga gactcagaag 180  
ggcttcttag ttcatgttcc ccttagcgcc tcagtgattt tttcatggtg gcttaggcca 240  
aaagaaatat ctaaccattc aatttataaa taatttaggtc cccaacgaat taaatattat 300  
gtcctaccaa cttatttagct gcttgaaaaa tataatacac ataaataaaaa aaatatattt 360  
ttcatttcta ttcatttgkt aatcacaact acttactaag gagatgtatg cacctattgg 420  
acactgtgca acttctcacc tggaatgaga ttggacactg ctgcctcat tttctgtcc 480  
atgttggtgt ccatatagta cttgattttt tatcagatgg cctggaaaaac ccagtcac 540  
aaaaatatga aattatcaga aggattatag tgcaatctt tggtgaaaga atgaactacc 600  
tcactagtag ttcacgtgat gtctgacaga tggtgagttt cattgtgtt gtgtgttcaa 660  
atttttaaat attctgagat actcttgcg ggtcactcta atgccttggg tgccttggcc 720  
agtttttagaa ataccagttg aaaatatttg ctcaggaata tgcaacttagg aaggggcaga 780  
atcagaattt aagcttcat attctagcct tcagtctgt tcttcaacca tttttaggaa 840  
ctttccata aggttatgtt ttccmgccn rggusatgggg ggtcattggg gcc 893

<210> 201

<211> 503

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (480)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (493)

<223> n equals a,t,g, or c

<400> 201

aaactcactg gctgaaggag gaaatttttag aaggaagcta ctaaaagatc taatttgaaa 60  
aactacaaaa gcattaacta aaaaagttt tttycctttt gtctggcag tagtggaaat 120  
aactactcac aacattcact atgtttgcaa ggaattaaca caaataaaag atgccttttt 180  
acttaaacac caagacagaa aacttgcaca atactgagaa gcaacttgcg ttagagaggg 240  
aactgttaaa tggttcaac ccagttcatc tggtggatgt ttttgcaggt tactctgaga 300  
attttgctta tgaaaaatca ttatttttag ttagttcac aataatgtat tgaacatact 360  
tctaataaaa ggtgttatgt ccttgcgtat ggtactaaat gtgtcctgtg tacctttgc 420  
acaactgaga atcctgcagc ttgggtttaa tgagtggtt catgaaataa ttatgggggn 480  
atgtaaaaaaaaa aanaaaaagag ggg 503

<210> 202

<211> 438  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (344)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (391)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (412)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (425)  
<223> n equals a,t,g, or c

<400> 202  
catgtgatca tttatgtgta tacagagtaa ttataaaatg tttgctgtgt acaaaaactat 60  
tttatttagtg gatttaaat acattaaatg ggtatatata gtatatatga tctaggagta 120  
tatataggga actctaacaat atttataata tttatTTTTT aaaagaatga ccaaacatgg 180  
caaaaatatta ctatgagttt gatctggaca gtggatgcaa gggcttcattatgttattt 240  
tctgattttg tggtaactt atttcacaat gcagaggaaa aaatagtctt ggctcatcct 300  
tagatatcac tggcataga gccagtacc accgacgatcc cacnTTTat ggtggccag 360  
gcattggag tccagagccc atcacccaaac naccaagtga cgggtgggaa cnctggtag 420  
cctgnaaagg gggccatc 438

<210> 203  
<211> 876  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (778)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (786)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (804)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (817)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (835)  
<223> n equals a,t,g, or c

<400> 203  
cggcgatata tactaaattc gcgcgtgact tcatgagtag tagtgaatac aatcttcctg 60  
cttctaagct tgggtctact agaatgtttt cccccctaaaa gatatattt aatgtttccc 120  
atgtttcttc tagtacttta atgcgttca ttttcataat gaaatcatgg atctacttct 180  
agtttykgat acaamatgtg agccaggaaa cccagttttt aaatttcaaa tagctgtcca 240  
ggtgtccctg caccctttat gcatgagccc tcgccttggc ccaatgtgaa gtgcccgcct 300  
gctcacacgt gccccatgtgg agtgccgcct tgctcatgtg cccatgtgaa gtgcccgcct 360  
gctcacacat gycatgcgg agtgcccrcc tgctcacaca tgcccatgtg gagtgccgc 420  
ctgctcacac gtgcccattgt ggagtgcggc cctgctcaca cacgtgtcca tgtggagtgc 480  
ccacctgctc atgtgcccattgt ggagtgcggc cacctgctca catgtgccga tgtggagtgc 540  
crcctgctca cacacgtgcc catgtggagt gccccctgc tcacrygtgc cgatgcggag 600  
tgcccgctg ctacacacgtg ccgatgcggaa gtgcccgcct gtcacacgt gccgatgcgg 660  
agtgcggccctg tgctcacacgtg tgcccatgtgg gagtgccgcct tgctcacacac gtgcccacgc 720  
ggagtgcggccctgctcaca cgtgcccacgtc ccgagtgcccc gcctgctcac acgtgcccac 780  
gcggantgcc cgccgtctca cacntgccga cgccgantgc ccgcctgctc acacntgccc 840  
atgtggagtgcctgctc acgttgccga tgtgaa 876

<210> 204  
<211> 1504  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (4)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (15)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1468)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (1494)  
<223> n equals a,t,g, or c

<400> 204

tgtntccmt gtgcnacaac cygcygcaga ctggggccy tctcagttaa ttgggttca 60  
caagcaataa ttctccaca aaaaaacca caacttgaag tgagttaaa agagatcaat 120  
agtggaaaca gtcgcctcag tacttttct ttctggattt catctctaga aatttgaagt 180  
gttgagaca gagtccaccc tttgtgcaag gcgagaacca atgaatggac tccttgttg 240  
aattattgca tcttcttcca aagcagggtc atcaagactt tcacagagat tcattttgt 300  
tgagaagtaa gggtaatag gaggatagaa tttgatcca aatctagtga taaaagtgtc 360  
caagcaatca aaaagtaaga tatttttaggg acataccaac atcttccctt tctgctaatt 420  
tcatgctcca aagatatrge aaaaaaaaaa atcataaaaaa gtgctttgc cctacttgt 480  
ttcttagttt cccatggcag aattttgtaa ttacatccag aatatagtgt atattttgtt 540  
cctcaaactt tattacattt gatggatatt gttgractgg ggcactggg cctatattca 600  
aggctcttc ctatcaacgt gtctgtccac gatttgggtt gtttaaagct tcattttgaa 660  
aaatcactgt cccccctgtgg gtagtgactg tatttttttgc ttcatgtcta tgtggacac 720  
attgcatcac atggcaaacc aactctctgt ggatgtgaga taagtactta taaaaccac 780  
ttgaaaacat cgtcttatgt attatgtcat cctgcatcat aatgcaatta tgtgtatcat 840  
aacatgctca tttaaaaaaaaa gagaaaccac caaattcatg tttgtccata gaagaatgta 900  
ctcagaacctt tgtttgtga aacgatgaga acagaccacc ttaaagatac ccacccgtca 960  
cttaaaatga cttagttata attagtagta gtctagacgt tttttttgtt gtgtgggggt 1020  
caattctaaac gtcatgttct tttgaataaa tctctcagtc atattttgaaa aaaaaataca 1080  
tgggaataaa gaaaaatatac atcttggcc aaatcaagca ggcattttt ttctttccct 1140  
tgacgtttag ctcattatac gtggtgattt gatcacgaga tctgtccgtg tgaaaataca 1200  
gaaacatctt ttagttaca aaacagttat tcttaggcttg aacgctctgg aacagcaaat 1260  
tgaatagatg ggctgcatct gattttgtt atggatgtaa ttttacaaaaa cactcttggg 1320  
tctctgaccc caggaggtt agagtgcaca gaggaggcc tacacattaa aggataaagc 1380  
cccccagtga tgctggcagc aaatgtgtt agtttttttatttccattt ggktttctgk 1440  
ttcaggtttt taattgcaat ggattttttt tcccccgttt tttcttaagg gccncatttt 1500  
ccca 1504

<210> 205

<211> 525

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<400> 205

agtcttggc ctaatgcact tgtccacatc gtatgtcatt acaagtnctt cccctcttt 60  
aaccagaggg catagaattt gggcttagt gtcctaaac aagctaaaag attccacctg 120  
tagaatcata aaatgagagt ctcacacagt ttcatgtac tttttgtctc ttcatgtcagg 180  
aacgggttgc gggattgtca gtgaccagc atgtctggat agtttcacac atacacataa 240  
tgccccggc acctcagccc acacatgttc tagaagtagc cacttgccaa gtgtcagtgt 300  
tcagtctaaa cagcaaatgg gttaccaca tgaacagcac tggcccatgt gagaatggtg 360  
tgaaggcctc ctttgtacca tttccattt ctcttaactca catgtgttagt ctcagcactg 420  
cagaggacac atttgtttgtt gcccctctgag actgggttgggt tgggtgggtt gttttttt 480

tttatgaat cctaaaattt gtcttggcgt gttaaaaaaaaaa aaattt 525  
  
<210> 206  
<211> 2494  
<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc feature  
<222> (2471)  
<223> n equals a,t,g, or c  
  
<220>  
<221> misc feature  
<222> (2485)  
<223> n equals a,t,g, or c  
  
<400> 206  
caaagaaaca ttgaaacaa tttctaata agaacaaca cctcttccta aaaagattaa 60  
cccaaccgaa tctacttcca aagcagaaga aaatgaaaaa gttgattcaa aagtgaaagc 120  
tttcaagaaa ccatttagtg tatttaaagg ccccttacta cacatcagcc cagcagaaga 180  
actgtacttt ggaagtacag aatccggaga gaagaaaacc ttaatagtgt tgacaaaatgt 240  
aactaaaaat atagtggcat ttaaggtgag aacaacagct ccagaaaaat acagagtcaa 300  
gccaagcaat agcagctgtg acccggtgc atcagtggat atagttgtgt ctccccatgg 360  
gggtttaaca gtctctgccc aagaccgtt tctgataatg gctgcagaaa tggAACAGTC 420  
atctggcaca ggcccagcag aattaactca gtttggaaa gaagttccca gaaacaaaagt 480  
gatgaaacat aggttaagat gccatactgt tgaaagcagt aaaccaaaca ctcttacgtt 540  
aaaagacaat gcttcaata tgcagataa aaccagtgaa gatatatgtc tacaactcag 600  
tcgtttacta gaaagcaata ggaagcttga agaccaagtt cagcgttgc tctgggttcca 660  
gcagctgctg ctcccttaa caatgcttt gcttgcttt gtcaccttt tcttcattw 720  
attgtacagt taaaagaagtg tgccggta ggaaccacgg ttccctcgtc cattagttgg 780  
aaaagtaaca gacctaaaac tctaccaagc tactaaaamc attgcacatc tgcgttcc 840  
aaaagggaaat atgcagcacg tggagggaa cacatcatg tcttggaaaat aaactgctag 900  
aataaaagaaa tgctggagaa attgattata agagactata gctatTTGT aaagtaagta 960  
aaggcatatc cattgtgtaa attaatagtt taaatataat ttatTTTTC cttttgatct 1020  
gaatacttt aaagcttaag ttttacgtg taaatacatt agctaaactg aaaagtataa 1080  
gtaacatgt ttgtgcagc caaaaaatgt aatctgcttt tttatgacag aattattata 1140  
gctgagctga cttacttagt tttctataact atgtatataag aagaacatgt atatttgagaa 1200  
agaaaaacata cttatataaga ggaattttatg taaccatgac tttgtatTTTGAAATTCC 1260  
tcccagtgtat ggtcagtatt cttttggat gtaaaccgat ttaatgccaa accaccttaa 1320  
cctttgttcc tcagtgttcc ttaacagcct gcctttatt aatctcagc tttttatgt 1380  
acactctcat ttcaTAGGAAAC taaggcgtgg tggattttt ttgtatTTTGAAATTCC 1440  
tttagtaatgc caaaaagaaa agtctcaagc agtcccccta tccagtgcatt tttatggagt 1500  
ttcatgttgttcc ccaactatgc tggacactga acctttgcc taattttatgt 1560  
accctctatt gtcccatctt cacccttatt ccagagcaga ggagtctctg tggaccatgt 1620  
attgcactgt ctccctcctc atttctaaat gaaaggattt agatataat ttttttgaaa 1680  
ggtagttgttcc ccaactatgc tggacactga acctttgcc taattttatgt 1740  
aaagtcagcc catgacaagg aaatttacaa aatacttagag tatctagaag ggtgaaaaca 1800  
aaaaaaaaawa aaaaaraaaaca cagacgccccca ggtgtcagct ctccgtttaa agaatgaaaa 1860  
atgttaactca tgatgtatgt tgaaacccctc aaacttaggac caattgactt acttgatatt 1920  
ctgccttgc tatggtagta cccaccccggtt attcctaaaa tcctaaaaag atacacccctg 1980

cagtagcaga ggcaatgaca tgagttgtt ttctcattaa tatgaccagt ttgggtctat 2040  
gttggttcac atgtacatct actttatatg aaagaaaaaa cagttgtctg cctgtaaaat 2100  
gttgagtttc gattgagcca tggggaga ttttattact attctgaagg gtagtgtgt 2160  
tggtttcat cttaaagaag ttgattccaa aactgagtt tgaagaatga tataacagtt 2220  
ccttcaaaat tggcttagga aataaaaacct taaaaggaca ctggtgtgt actttgtctt 2280  
aatttgggct ttctgttgc agtttgcac ac ctcagctgt gaaatggact gcagtcacc 2340  
ctaagtactg tgcacagttt ctccctgtgt gtgtcacag tggctcccc ttacatggta 2400  
gattttggc cttaatataa tctaattccaa aagtagttgt gtatgtttc tgcccttgg 2460  
caataaaaat nagaataat ttagnccaag attg 2494

<210> 207

<211> 880

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (864)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (865)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (868)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (878)

<223> n equals a,t,g, or c

<400> 207

gggcacgagc tttgacccat tcaaggatgt ctctgcctgg agaactagat cctgactcag 60  
tggcagcata ggttctcccc caggggtggt ctgaacttca gtcagaagc agcctggacc 120  
ccatcttacc tccagataag gtgttttagg tactctgtt ccagtgttag tgcaacttag 180  
tttaaaaata gaggacttgt tcacagtatg ctctaaatc cacactggag ttttgcaaa 240  
cataaaatgt gtgatgttgg agcagagcga agtcttagaaa ttgcctttaa attatttgt 300  
gtactctaga gaacgtggta ttttatgtgt ttttatgtgt ttttatgtgt 360  
cattgaacgt tagattgttca taagaccaga attagattaa aaatgcataa catattaatgt 420  
attaaaaatgt gtttatattgt tatatgttca ttgcctggta agtttagctt ggcatttttag 480  
gttttaattgt atgtttaatc tttttaatgt atgtactgtt tttttaatgt ttcttaattgt 540  
gttttttgtt accatcttca gtatgaaaaa tgtcaagtatt tagttccctt ctcaggcaca 600  
attagattttt tattgtacatt gtttcccccc ttaacttcatg taatttgtca tagcaaccaa 660  
gagtcaagag agtgcattacc agccaattaa gaaaaatgtg accaaggcaga ttgcagagta 720  
caataaaaacc atcggtggatg ctttacatag catcagcga aactgagtt aagtccactg 780  
aaagtctcta aggaagtatc ctcttgctgc taaacttggt acaagttgac taccaaaaaaa 840  
aaaaaaaaaa agccgaggkg ggcnnngtncc aaggccntg 880

<210> 208  
<211> 640  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (2)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (5)  
<223> n equals a,t,g, or c

<400> 208  
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gaggtcttcc ag gagatgtct ggccatgtcg ggagatcaga qcaacagcta caacaatgaa 180  
gaattccctg atctaactat gtttccccc ttttccagaat agaactatgg gggtgaggat 240  
aagggggtggg ggagaaaaaa tcaactgttg tttttaaaaaa qcaaatctt ctgtaaacag 300  
aataaaagt cctctccctt cccttccctt acccctgaca tgcgttccct ttcccttctg 360  
gctgttcccc tgcgtctgttgc cctctctaa gtaacatTTTA tagaagaaaaat ggaatgaatc 420  
tccaaggcctt ttaggactgt ctgaaaaattt gaggtgggtt qaagttaaaaa caccttcct 480  
tatgtctccctt gacctgaaat tgcgtatgttgc tgatTTTGTGC tgagatcaag aggcaaggta 540  
gawgaacctg acatccactg yttgccttgg atagttatggc ttgwttttgg aaagaaattc 600  
tgaagagwgt ggaaggagag gagaaatgtc ctcatatttg 640

<210> 209  
<211> 303  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (85)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (92)  
<223> n equals a,t,g, or c

<400> 209  
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ttaatattca gaataaccac atgangtata anctgccatt atctttccccc tttgtacaaa 120  
tgaggaaagt gaggttcaca gaagttattt ggcccaagggtt cccacaacta gtcagtgcag 180  
agggtgggra acataaccag atttggcgg catgkaactt gtgcacattt tcctccaaag 240  
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act 303

<210> 210  
<211> 1168  
<212> DNA  
<213> Homo sapiens

<400> 210  
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aaatgttttggaaacttttga atacttaaaa atggcagggtg tagtatttca ctttgctagt 180  
tgctcagata cccttttta tttgtataga tattctgagt tcctttttt ttctacatgt 240  
tgtacgttgt cgaaagctaa aaggaaactt atccttggat cacggaaggc agaggcattt 300  
ggtgagatgg aaacaaggat gtgtaaaaat gagacgacca cctctcgat taaaaaaaaa 360  
aagtgccaga gttctagggt tctaagtgtat gtccaggaag gaggagaaat aatattttatg 420  
gagcatatat tatggaacac agcaatcagg atgagtggaa aattgatttgc cagctgaccc 480  
gcaaataatggaa tcattcaggaa catcccttc tcattggatc ccttaatttca caagtaact 540  
gcaaacatag gagatgatag ttccaagaag gaacatttttca tcgtctttgt ttttatctc 600  
aagaatggta cttaccatca gtgaatgacc tggtgcagtgc tttcatttca agtgttcttc 660  
gttccctcag caatatgatt gtgtgactg aaaaaggaa actgtgccccat tatttttacc 720  
atcattttca ccaaataatcta aaaatgctt ttatgacgta tggagacattt cttcatgttt 780  
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ccccacagcc aattttttat aaaccagg 1168

<210> 211  
<211> 3133  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (3069)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (3085)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (3114)  
<223> n equals a,t,g, or c

<400> 211  
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gtggaaaatg ggaggcatga aatacatctt ttcgttgttg ttctttcttt tgctagaagg 180  
aggcaaaaca gagcaagtaa aacattcaga gacatattgc atgtttcaag acaagaagta 240  
cagagtgggt gagagatggc atccctacact ggaaccttat gggttgggtt actgcgtgaa 300  
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acatggagag ctgttcgttag ctgaagggtctt cagaat cgccaaccca atcaatgcac 540  
ccagtgcagc tggtcgagg gaaacgtgta ttgtggtctc aagacttgc ccaaattaac 600  
ctgtgccttc ccagtctctg ttccagattc ctgcgtccgg gtatgcagag gagatggaga 660  
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ccgctttccct gggccagaa gtcaccgggg agctttatg gattcccagc aagcatcagg 840  
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<210> 212  
<211> 680  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (613)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (660)  
<223> n equals a,t,g, or c

<400> 212  
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tatatttgtt ataaactatat tttatgttgt atgttatcag gagccatcag agaatgacct 120  
tttggtgtt ggaacacttg gttccatgaa aagtatgctt tgtgttttaa ctgttaaaat 180  
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tttcacaatt tcaacatgtc aaacctatga agggagatag gaaacaatga gaaacttact 300  
tttgctccctt tatacagrat tattaaactat attttactaa ctaaaaaact ctagtattct 360  
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ggatccaggg gcttcaccggg 680

<210> 213  
<211> 563  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (440)  
<223> n equals a,t,g, or c

<400> 213  
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taccctgttaag acaaaaacttg ttaaaggctc ctgagtctaa cctagattac atcaggccct 180  
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attaccttaa tgaaacagtt accgaagtt tggatagaa aaatccttta ttttaaaact 540  
tactcctcca gcttgttata act 563

<210> 214  
<211> 2636  
<212> DNA  
<213> Homo sapiens

<400> 214  
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ccagaaaact ggataataag gatctattt gaaagt caga cccatacctg gaattccaca 180  
agcagacatc tgatggaaac tggcta atgg ttcatcgac agagggtt gttt aaaaacaact 240  
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<210> 215  
<211> 1822  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1816)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1821)  
<223> n equals a,t,g, or c

<400> 215  
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aaaactatgc atatctatat attggccaat tatcttaat aatttacctt ttgaaattgc 120  
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ggtggcaaaa aaaacnactg na 1822

<210> 216  
<211> 3127



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<210> 217  
<211> 1529  
<212> DNA  
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<221> misc feature  
<222> (57)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (458)  
<223> n equals a,t,g, or c

<400> 217  
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gccacaagag cccaggtct gcagtgtgcc cctcaattga gtgggcaggg ccgggggtgg 660  
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tatcagaact gcccaggacc acgtttccca ggcctgtccc agctggact cctcggtctt 1140  
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gccccgactt ccactctgga gaaccgtcca ccctggaaaag aagagtcag attcccttttgc 1260  
gctctcggtt ccgcaggaggat tgggttctt cgcggccaccc tccacccccc gaaatgttcc 1320  
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<210> 218

<211> 1100

<212> DNA

<213> Homo sapiens

<400> 218

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ttgttaaagg ggcagtagta ctttgtggg gccagttcac ctcccttcct aaaattcagt 180  
gtgatcaccc tggtaatggc cacactagct ctgaaattaa tttccaaaat cttttagta 240  
gttcataaccc actcagagtt ataatggca acaaacagaa agcattagta caagcccc 300  
ccaacaccct taatttgaat ctgaacatgt taaaatttga gaataaagag acattttca 360  
tctctttgtc tgggttgc tttgtgc tgggactcct aatggcattt cagtcgttg 420  
ctgaggccat tatattttaa tataaatgta gaaaaaagag agaaatcta gtaaagagta 480  
tttttagta ttagcttgat tattgactct tctattttaa tctgamtctg taaattatgc 540  
tggaaagtttgc ctttgagaac tctattttt tatttagattt atatttaaag cttttcatgg 600  
gaaaagttaa tgtgaataact gaggaatttt ggtccctcag tgacctgtgt tgktaattca 660  
ttaatgcatt ctgagttcac agagcaattt aggagaatca tttccaacca ttatttactg 720  
cagttatgggg agtaaatttta taccaattcc tctaactgta ctgtaacaca gcctgtaaag 780  
tttagccatat aaatgcaagg gtatatacata tatacaaattc aggaatcagg tccgttcacc 840  
gaacctcaaa ttgatgttta ctaatatttt tgtgacagag tataaagacc ctatagtggg 900  
taaatttagrt actatttagca tattttaat ttaatgtcattt tattttgtcat 960  
gcttaatct ggttaacata tttaaatttgc cttttttctt ctttacctga aggctctgtg 1020  
tatagtattt catgacatcg ttgtacagtt taactatatc aataaaaagt ttggacagta 1080  
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<210> 219

<211> 1792

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (476)

<223> n equals a,t,g, or c

<400> 219

ccgtggggag cgtaggtca gggggccccc gcggcgcagt cccccctcag catcccaac 60  
agcagcagcg tcccgatcg ctcgcaggac tcgggtcaca gcagccctga ggacggcggc 120  
ggcgccgsgg accgcmtggg cgggaccggc gggccgcgcc tgggtatcg ctccttacca 180  
gctcacctct cgccgcacat gtttggagga tttaagtgcc ctgtatgc taaaatttgc 240  
tcctcagatg aaatggattt gcatcttgc atgtttaa caaagccacg aataacctat 300  
aatgaggatg tactgagtaa agatgctgg gaatgtgaa tatgccttgc agaattgcag 360  
cagggagata ctatagcacg actgccttgc ctatgcataat atcataaaagg ctgcataat 420  
gaatggtttgc aagtaatag atcttgcctt gggccaccc cagattaagc gtcannntcc 480  
tgtttttagt gtttttttttgc cttgacaaga tgcttgaaaa accaagagga yatgaaaatc 540  
tgtctcttgc gaaacaaaga cgccggcata ctcagccaga aatctgaggat ttgtgagact 600

tggtaatac a gagatggaca atcgtaactgg ggtaaaaaaaa ccctgctgaa gagaggacag 660  
 tgaccacaga actcagtgt a ccaa acatgc ataca aaagga cacacaggga tttt gaaaat 720  
 gctgcacatc ccttaatagt catctacata ggt aataactg ataa acattt tgtattcaga 780  
 cgccaa agtt aactgattt a aagttgatt tacttttt taagttctcc agagctgcac 840  
 aactagttat gtttgattt gttt gttt ttaatttggg gtctcttgt tttccccaa 900  
 ataatgtca taatgtttct gcattcatct gttttaat t gaaaaacat ataatttact 960  
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 tctacatagg aaagctaaaa tatgttaata tttttaattt aaagttttaa tatcagaatg 1140  
 cagtccaa agc aaatcat attacataat tacattttaa ttaaataatag aatattctac 1200  
 tgaattgca tttattaaat attcttatacc tcttaaataa aactgctcaa cagttatca 1260  
 gcagtgaatc atcttgcagc tatgcaattt aaaaaaaaata cagattacca atttcaagt 1320  
 ctgccagcta aaataactgt tttaacgggt atctttgtt tgktctttc acttaattat 1380  
 tttattgtc tttgcatttc caggcaggc tctcacattt gggtaaaatg ttagcaggc 1440  
 tgtaaactt a gaaaagggt aaaaataat tttctggaga ggaacttgga atttgaggga 1500  
 gattttat acctttaaaa actgtat tttttttttt aatttttttccatgatc ccaggttat agcaatttgc 1560  
 aactttaatt ttccagataa tctggagtt agcatttgcattt aatgtat ttaaagtata 1620  
 tatgaagatt ttgttaattt ataatttattt catgtgtat tactgtat gaaaatgtt 1680  
 tagacacttt taaattcagt ttgtgttagaa agaaatgtt taaacaaaat tatgttaata 1740  
 aatattccm cataataaaaa aaaaaaaaaa aaaaaaaaaa aa 1792

&lt;210&gt; 220

&lt;211&gt; 1310

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 220

tctgcctggg atgtaaaccg gaccagccgc tgccccaga aggaaggctc ttggctcctt 60  
 cgggaaaccc agccccgtca ccgggctccg a cggcgtcgc aggccacgc acgkccctcag 120  
 ccccgccagc gccyagcgkc ggctgcgaa a cggcggggc gtccgacgc ggcgcggg 180  
 gggagcgtgc gtcgttcgc acaggcagc ggaggagggg cggcgcgaac catggccggg 240  
 gacagcgcgc agaccctgca gaaccaccag cagccaaacg gccgcgcgc cttccctata 300  
 ggcgtcacgg gggAACAGCT a cggcaagt cttccgtgt tgctaaagatc gtgcagctcc 360  
 tggggcagaa tgagggtggac tatcgccaga a cgggttgc tatttttttttgc caggatagct 420  
 tctaccgtgt ctttacctcg gaggcagaagg ccaaaaggccct gaaggscctt ttcaactttt 480  
 accacccttgg a tgccttttgc aatgarstca ttctcaaaac actcaaagaa atcaactgaag 540  
 gggAAACAGT ccagatcccc gtgtatgact ttgtctccca ttcccgaaag gaggagacag 600  
 ttactgtcta tcccgccagac gtgggtctt ttgaagggtt cctggccttc tactcccagg 660  
 aggtacgaga cctgttccag atgaagctt ttgtggatac agatgcggac accccggctt 720  
 cacgcagagt attaaggac atcagcggaa gaggcaggga tcttgagcag attttatctc 780  
 agtacatttac gttcgtcaag cctgccttgc aggaattctg cttgccaaca aagaagtatg 840  
 ctgatgtat catccctaga ggtcagata atctggtggc catcaacctc atcggtcagc 900  
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 gctacacccc ttacacgcaag aggccaggcat cggagttccag cagcaggccg cattgacccg 1020  
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 catctgtaca tactgtttcc tatgacatta ctgtat taa gaaaacacca tggagatgaa 1140  
 atgcctttaa tttttttttt ctttttttgc ttttggaaacga caaaatgaaa cagaacttga 1200  
 ccctgagctt aaataacaaa actgtgcacaa ctactactgg tgatgcctaa ttatgaatcc 1260  
 aacgtgtaaac cagttataaa tacatataata tataaaaaag gaaaaaaaaa 1310

&lt;210&gt; 221

<211> 1369

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1347)

<223> n equals a,t,g, or c

<400> 221

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agcacagttt ggaacaacag cagagatata tgccttatcga gaagaacagg attttggaaat 120  
tgagatagtg aargtggaaag caattggaaag acaaagggttc aaagtccctg agctaagaac 180  
acagtcaaat ggaatccagc aagctaaagt gcaaattctt cccgaatgtg tggtgccttc 240  
aaccatgtct gcagttcaat tagaatccct caataagtgc cagatatttc cttcaaaaacc 300  
tgtctcaaga gaagaccaat gttcatataa atggtggcag aaataccaga agagaaaagtt 360  
tcattgtgca aacttaactt catggcctcg ctggctgtat tccttataatg atgctgagac 420  
cttaatggac agaatcaaga aacagctacg tgaatgggat gaaaatctaa aagatgattc 480  
tcttccttca aatccaatag atttttctta cagagtagct gcttgccttc ctattgtatga 540  
tgtatttgaga attcagctcc ttaaaattgg cagtgctatc cagcgacttc gctgtgaatt 600  
agacattatg aataaatgtt cttccctttg ctgtaaaacaa tgtcaagaaaa cagaaaataac 660  
aaccaaaaat gaaatattca gtttatcctt atgtggggccg atggcagctt atgtgaatcc 720  
tcatggatat gtgcattgaga cacttactgt gtataaggct tgcaacttga atctgatagg 780  
ccggcccttct acagaacaca gctggttcc tgggtatgcc tggactgttgc cccagtgtaa 840  
gatctgtgca agccatattt gatggaaagtt tacggccacc aaaaaagaca tgcacccctca 900  
aaaattttgg ggcttaacgc gatctgcctt gttggcccacg atccccagaca ctgaagatga 960  
aataagtcca gacaaagtaa tactttgtt gtaaaacagat gtgatagaga taaagttatc 1020  
taacaaattt gttatattct aagatctgct ttggaaatta ttgcctctga tacataccta 1080  
agtaaacata acattaatac ctaagtaaac ataacattac ttggagggtt gcagtttctta 1140  
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agaataccag aaacatctac ttgggttagct tgggtccatt atcctgtgga atctgatatg 1260  
tctggtagca tgcattgtat gggacatgaa gacatctttg gaaatgtatga gattatttcc 1320  
tgtgttaaaa aaaaaaaaaa aaaaatngct gcggccgaca aggaaattc 1369

<210> 222

<211> 792

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (573)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (585)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (599)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (636)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (699)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (772)  
<223> n equals a,t,g, or c

<400> 222  
tgcgagaaga cgacagaagg ggagagactt gagggaggcg ctgcgactga caagcggctc 60  
tgcccgggac cttctcgctt tcatctagcg ctgcactcaa tggaggggcg ggcaccgcag 120  
tgcttaatgc tgtcttaact agtgttagaa aacggctcaa cccaccgcgt ccgaaatgaa 180  
gtataagaat cttatggcaa gggccttata tgacaatgtc ccagagtgtg ccgaggaact 240  
ggccttcgc aagggagaca tcctgacccgt catagagcag aacacagggg gacttggaaagg 300  
atggtgtgctg tgctcattac acggtcggca aggcatgtc ccaggcaacc gggtgaagct 360  
tctgatttgtt cccatgcagg agactgcctc cagtcacgag cagcctgcct ctggactgat 420  
gcagcagacc tttggccaac agaagctcta tcaagtgcc aaccccacag gcttgcttcc 480  
cccgagacac ccattcttac ccaagggtgcc cacccttcc cttacccaaa aaatcaaggg 540  
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caaaggaggg gtattattca gggttgcccc acccanttaa ggttgcaagg aggaaaggca 660  
ttttgggggg ggaacccagg tttggggccc ccaacgttng ggtataaaaaa agggttgttt 720  
ccaggaggag gattgggcaa agttgtccct atttctttg gttaggagcc tnttaacaa 780  
aacccagctt gt 792

<210> 223  
<211> 921  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (851)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (885)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (895)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (911)

<223> n equals a,t,g, or c

<400> 223

gccccctctg cagtacccccc gcccctcttc tcccaccaca atgagatcct aagatggcg 60  
tggctgcggc ggttggcgct gcgtactgag gtcgaaaagg cggccactgg ggccgaggca 120  
gccagggaaac gtgtgggcct ctctgctgcg gtctccgagg gcccaccgct gccggcgccg 180  
ggtcgtgggg gctgactgtc gctctgcctt tgacaggaga ggctgcttct ttagaggaa 240  
acagcttga agtgtggagc gggaaaggag cagttctga gtcgaaaaaa ctagttcta 300  
aacagagagt taattgttaa atccagtatg gccacaggag gaggtccctt tgaagatggc 360  
atgaatgatc aggatttacc aaactggagt aatgagaatg ttgatgacag gtcacaacaat 420  
atggatttgg gtgccaaca gaagaaagca aatagatcat cagaaaagaa taagaaaaag 480  
tttgggtgttag aaagtgataa aagagtaacc aatgatattt ctccggagtc gtcaccagg 540  
gttggaaaggc gaagaacaaa gactccacat acgttcccac acagtagata catgagtcg 600  
atgtctgtcc cagagcaggc agaatttagag aaactgaaac agcggataaa cttcagtgat 660  
tttagatcaga gaagcattgg aagtgattcc caaggtagag caacagctgc taacaacaaa 720  
cgtcagctta gtggaaaaccg aaagcccttc aacttttgc ctatgcagat taataactaac 780  
aaggagcaaa ggtgcatttt acaagtcccc caaacagagg aaacggttgg gttcagcaca 840  
gtgttaaagg nttgtttgc tttctggtt ttaagtaatt gaccnctttg gccanacttt 900  
tccgggtgtt ntgaaggagg t 921

<210> 224

<211> 1979

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1949)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1953)

<223> n equals a,t,g, or c

<400> 224

ggcgccgccc aagcgccaga cgcgagctgg gaaaagggag gcagaggagg cgaggcaga 60  
ggcagagca gagcccggtg ccgagaccaa gcgacagacc ggcggggctg ggcctcgaa 120  
agccggctcg gcgagctctc ccgacaccccg agccggggag gaaaagcagc gactcctcgc 180  
tcgcacatccc gggagccgca ctccagactg gcccggtagt caggggctca ggagcagatc 240  
ccgaggcagg ctttgcctcg cctccgacga gggctggccc tttggaaaggc gccttcaaca 300  
gccggaccag acaggccacc atgaccgaga attccacgtc cgccccctgog gccaagccca 360  
ageggggccaa ggcctccaag aagtccacag accaccccaa gtattcagac atgatcgtgg 420  
ctgccccatcca ggccgagaag aaccgcgcgtg gctcctcgcg ccagtcatt cagaagtata 480  
tcaagagcca ctacaagggtg ggtgagaacg ctgactcgcgca gatcaagttg tccatcaagc 540

gcctggtcac caccgggtgc ctcaaggcaga ccaaagggtt gggggcctcg gggtccttcc 600  
ggctagccaa gagcgcacgaa cccaagaagt cagtgccctt caagaagacc aagaaggaaa 660  
tcaagaaggta agccacgcca aagaaggcat ccaagccaa gaaggctgcc tccaaagccc 720  
caaccaagaa acccaaagcc accccgggtca agaaggccaa gaagaagctg gctgccacgc 780  
ccaagaaagc caaaaaaccc aagactgtca aagccaagcc ggtcaaggca tccaaagccca 840  
aaaaggccaa accagtgaaa cccaaagcaa agtccagtgc caagaggccc ggcaagaaga 900  
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caagtgcctc agtgccttcc gttgaaacattt aggttttcc acgcaatcga tggattgtgt 1740  
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cttggtttgg tggggctgcg gccacttaaa acctcccgat ctcttttgc gtcctttttt 1860  
taaacaagtg ttacttgc cggaaaattt ttgcgtctt tgtaatttttta aaactttaaa 1920  
ataaaatttggaa aaagggaraa aaaaaaaagna aanaaaaaaaaaa aaaaaaaaaa 1979

<210> 225

<211> 541

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (506)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (511)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (532)

<223> n equals a,t,g, or c

<400> 225

tcgaccacg cgtccggccca cgcgtccggg aaacaggaga tcgtggatcc tccttcaaaa 60  
atggaggatg gaaagccgt ttggggcgca caccctacag atggatttca gatggcaat 120  
attgtggata ttggccccga cagcttaaca attgaaccct tgaatcagaa aggcaagaca 180  
tttttggctc tcataaacca agtgccttgc gcagaagagg acagtaaaaa agatgtggaa 240  
gataactgtt cactaatgtt tttaaatgtt gcccacactgc tccataatataa caaaggatgtt 300

tatagtaaaag acagaattta tacatatgtc gccaacattc tgwttgca 360  
tttgacatac ctaaaatata tcttcagagc ataaaagtcat atcaaggaaa atctcttggg 420  
acaagaccac ctccaggctt ttgcaatgc tgataaggct ttcgggacct ggaagggtgcc 480  
ccaagatgag tcagtctaac catggnatcc nggagaatcc aggggcccggg gnnaaaccagg 540  
a 541

<210> 226

<211> 277

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (135)

<223> n equals a,t,g, or c

<400> 226

tcgaccacg cgtccgtgaa taagcaatct ggccttgag ggggctgttg cggtacagac 60  
aattctgtgg agccggcttcg gcggctccga ggagaagcaa tatgttaagg atacctctaa 120  
gaagggcctt agtangcctt tctaataagt cttccaaagg atgtgttcga acaactgcca 180  
cagcagaag caacttratt gaagtatttg ttgatggtca rtctgtcatg gtggaaccrg 240  
gaackacygt cctccaagct tgtgagaagg ttggcat 277

<210> 227

<211> 2069

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2026)

<223> n equals a,t,g, or c

<220> .

<221> misc feature

<222> (2042)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2050)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2061)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2062)

<223> n equals a,t,g, or c

<400> 227

<210> 228

<211> 471

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (287)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (372)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (418)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (462)  
<223> n equals a,t,g, or c

<400> 228  
ttccagtcag cggctgcagg gtcgggctcg cgccgtcctc tccccgccc cgccgkattc 60  
taatgttagga actggtgaga agaagggtgac tgaagcctgg atttctgagg atgaaaactc 120  
acataggacg acgtcagaca gactcacggt gatggagctc ccctctcccg agtctgagga 180  
agtccacgag cccagattag gggagcttt gggaaatcca gaaggtcaga gcctggggag 240  
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ggagagacag ctcaagtgtg caccaagtca ggaagaaacc atattctgaa atcagacttc 360  
ttctggcttc anagagagct ccttagaagg gggaaagccat tccttgcgt atcctgtngg 420  
gaaaccttca cgtttaattc ggacctaaat aaggcatcg gg 471

<210> 229  
<211> 1640  
<212> DNA  
<213> Homo sapiens

<400> 229  
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ggcgcacatgt cgacctgacg ctctacacga tggcgcaccta aagtcatgtg gcacccctt 180  
cgaaggtaca tggcatcccg gctccattcc ctgcggatgg gtggctacct gttcttggc 240  
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agcaccttga ggacccttggc gctgcacagc tgcgagatct ccatggcctg gctccacaag 420  
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gaaggggtgg ggttaagact caggggcacc tgagggtctg agcccccta tgagtaccca 1380  
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aaaaaaaaaa aaaaaaaaaa 1640

<210> 230  
<211> 1970  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (2)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (4)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1952)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1963)  
<223> n equals a,t,g, or c

<400> 230  
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cggcccgaga gcaggaacac gataacgaag gaggcccaac ttcattcaat aaggagcctg 120  
acggatttat cccagacggt agaacaaaag gaagaatatt gatggatttt aaaccagagt 180  
ttttaaagag ctgagaata cggggaaatt aatttgttct cctacacaca tagatagggt 240  
aagggtgttt ctgatgcage tgagaaaaat gcagaccgtc aaaaaggagc aggcgtctct 300  
tgatgccagt agcaatgtgg acaagatgat ggtccttaat tctgtttaa cggaaagtgtc 360  
agaagactcc acaacaggtg aggagctgt tctcagtgaa ggaagtgtgg ggaagaacaa 420  
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gaatgacctg gtttagaga acaaactaat tgcactggg qaagaaaacg ccactttaaa 600  
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atccaatgtg agttcatttg tggacgagca cgaaccctcg atgggtgtcaa gtatgttat 780  
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aagatttagat tgggttatca ctctgcgtgt gtatagtcg atatgtccatg cgaaggctgt 1860  
atatattgaa cattattttt gttgttcatataaagtgt gtaagttacc agttcaata 1920  
aaggatttgt gacaaacaca gaactcctgc tncattgcat tgnnttgatg 1970

<210> 231

<211> 310

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (262)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

<400> 231

gcgagactcc gtctcaaaac aaaacaaata aaaaaaacaa acagtatttt ttaggaattc 60  
attttatttt aaattttgtt aggaggagtt acaaaaaagac aaatactaca tatgattcca 120  
cttgcatac ctagagtcaa attcatggag acagaaagta gaaaggtgg taccagcggc 180  
tgggaaggag agaatgtgga gtttaatggg tatagaattt tagttttgtt aggtgaaatg 240  
agttctggag attgggttgcnaacagtgtt gaatatactc aacactactg aactgtanac 300  
ttaaaatgtat 310

<210> 232

<211> 2833

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1399)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2828)  
<223> n equals a,t,g, or c

<400> 232

ggcagaggcc aggccaagg ccgaggccgc agggctgcga gaggcgccgg caccgacgacg 60  
gtccccctcgc ccagccacca tgagcaccaa gcagatcaact tgcaggatt ttatgcattgg 120  
tgtgtgtcgga aagggaaagtc agtgcctatt ctcacatgac ttggcaaaaca gcaaacggc 180  
caccatctgc aagtactacc agaagggtta ctgtgectat ggaactcggt gcagatatga 240  
ccacacgagg ccctctgctg cagctggagg tgctgtgggc accatggccc acagtgtgcc 300  
ctccccagct ttccacagtc ctcaccctcc ttccgaggtc actgcattca ttgtaaaac 360  
taactcacat gaaccggaa agcgtaaaa gagaacattg gttcttagag accggaaatct 420  
ctctggcatg gctgaaagga agacccagcc gagcatggtg agtaatccag gcagctgcag 480  
cgaccccccag cccagccccg agatgaagcc gcattcctac ctggatgcca tcaggagtgg 540  
ccttgcgtac gtggaggcca gcagctccta cagcaacgag cagcagctgt gccctacgc 600  
agctgtggg gagtgccggt ttggggatgc ctgtttctac ctgcacgggg aggtgtgtga 660  
aatctgttagg ctgcaagttt tgacccatt cgacccagag cagaggaagg ctcacgaaaa 720  
gatctgcatt tgacgttcg aacacgagat ggaaaaggcc tttgccttc aggcaagcc 780  
ggacaaagtg tgcagtatct gcatggaagt gatcctggag aaggcctctg cttctgagag 840  
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gcgggtgtgcc aaacagttt aaaacccaaat cattaagtct tgcacccaaat gccgtgtgat 960  
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gattgaagct ttcaaaccagg ggatggggaa aaaagccgtt aaatacttt agcaaggccaa 1080  
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acaatattaa aacccaaatc atcaagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2820

aaaaaaaanaaa aaa 2833

<210> 233  
<211> 692  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (289)  
<223> n equals a,t,g, or c

<400> 233

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atctccagac aagagctaca ttatggaag ttctgacaaa aatcctcaa caaggcacag 120  
aatttgacac acttgcagaa acagtattgg ctgatcggt tgagagattg gtggaactgg 180  
tcacaatgtat gggatcaa ggagaactcc ctatacgat ggctctggcc aatgtggttc 240  
cttggctca gtggatgaa ctagctcgag ttctggttac tctgtttgna ttctcgcat 300  
ttactctacc aactgctctg gaacatgtt tctaaagaag tagaattggc agactccatg 360  
cagactctct ccggaggcaa cagcttggcc agtaaaataa tgacattctg tttcaaggta 420  
tatggtgcta cctatctaca aaaactccctg grtcctttat tacgaattgt gatcacatcc 480  
tctgattggc aacatgttag ctttgaagtg gatccatca gkttagaacc atcagagagc 540  
cttggggaaa accagcgaa cctccttcag atgactgaaa agttcttcca tgccatcatc 600  
agttcctctt cagaattccc ccctcaactt cgaagtgtgt gccactgttt ataccaggca 660  
acttaccact ccctactgaa taaagctaca gt 692

<210> 234  
<211> 1353  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (649)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1020)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1255)  
<223> n equals a,t,g, or c

<400> 234

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aagatggcg actcggtggc tagccatga ggaggcccg gggggaaaccg ggccccccggg 120  
ccccgagacc gactgaggga gcgacctcg cgaggccccgg ggagtcatgg tctccatcac 180  
ccaaactccat gcttcgagtc ctgctctcg ctcagacctc ccctgctcg ctgtctggcc 240

tgctgtat ccctccagta cagccctgct gtttggggcc cagcaaatgg ggggaccggc 300  
ctgtggagg agggcccagt gcaggtccctg tgcaaggact gcagcggctt ctggAACAGG 360  
cgaagagccc tggggagctg ctgcgtggc tggggccagaa ccccagcaag gtgcgcgccc 420  
accactactc ggtggcgctt cgtcgtctgg gccagcttgg ggggtctcg ccacggcccc 480  
ctcctgtgga gcaggtcaca ctgcaggact tgagtcaagct catcatccga aactgcccc 540  
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cacctcccccc ttgcagccc cttctccag gtggcaagg gttggaaagct gctctaagct 720  
gcccccggtt tctgcggtat ccacggcagc atctgatcag cagcctggca gaggcaaggc 780  
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cctgctggaa aaggccgtgg agctggagtc ccaggataac ggggtccccg gctttcccg 1320  
aggcagcaag ttgccattttt cccagctttc atc 1353

<210> 235

<211> 346

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (151)

<223> n equals a,t,g, or c

<400> 235

ggcacgagca ggatccaaaa tggcagcgct gtcgccttag ctggggagagc gagccgttgt 60  
ggctgtttgg gagacttatg gtcaccctga agtactgcct gcctctatgt tcgcgtccct 120  
ccagtatccg atgggagcgc cgtccgcagg naatgtgtct ctctgatcat ggtgcctcg 180  
gtccagctct ggggaagacc gagacgaaat cgagtcagct ggcgttggga gagggcttat 240  
ttccgcctcc gcttgccttccat tttcaggaat ttgattctga gagcaggct gcgggtccag 300  
gcagggtttg tacacatatt tgcgttgaa ggaaaaaaaaag aaccta 346

<210> 236

<211> 2271

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (547)

<223> n equals a,t,g, or c

<400> 236

gtcagaggct ggaaagtggg gactgtatttgg ggggtgtggaa ttgtgaatgg tgcgtgg 60  
acagtgtatgg aaagactcac ctggacaaac cctactgtgc ccccccagaaa gaatgctcg 120

gggggattgt gggagccaaa agtccctacg ttgatgacat gggagcaata ggtgatgagg 180  
tgatcacatt aaacatgatt aaaagcgccc ctgtgggtcc tgtggctgga gggatcatgg 240  
gatgcacatcat ggtcttggtc ctggcggtgt atgcctaccg ccaccagatt catcgccgga 300  
gccatcagca tatgtctcct cttgctgccc aagaaatgtc agtgcgtatg tccaacctgg 360  
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actggggtcg atcaggaaca gaaagtgatc atggttacag caccatgagc ccacaggagg 540  
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cgtcacggta cacactgtcg atgcagaatg ctaacaatct cctcacctcc acgccaagat 780  
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gttttaatgtg tagggttta tgatataatg taaaaacaa ttggttcttc agcagttacag 2160  
aaagtaaact atatatgtgc tatcaggaaa ccccttcata ctgtgtataa aattgcaatc 2220  
tagtgaataa aactgtatgc aatggaaaaaaa aaaaaaaaaaaa aaaaaactcg a 2271

<210> 237

<211> 3050

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (492)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3024)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (3031)  
<223> n equals a,t,g, or c

<400> 237  
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aggrgtatct ttgatgaaag acattnnaga ccctagaaac taaatcttgt caccaagact 120  
ttatagtaaa gtagtagcaa aattatttt aaaagactt cttcccttttta ctaccattt 180  
cctctcttgg gaaagctgat gagcaaaatta tccaagactc atttctttat taggcaaaagt 240  
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<210> 238

<211> 2802

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (613)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1800)

<223> n equals a,t,g, or c

<400> 238

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aagtccggcc tgcagatcaa gaagaacgcc atcatcgatc actacaaggt caccagccag 180  
gtcctggggc tgggcatcaa cggcaaaatgtt ttgcagatct tcaacaagag gaccaggag 240  
aaattcgcgc tc当地atgtct tcaggactgc cccaaaggccc gcaggagggtg gagctgcact 300  
ggcgggccc cc当地gtccccg cacatcgatc ggatcggtt tttgttacggg aatctgtacg 360  
cagggaggaa gtggctgttgg attgttggg aatgtttggg cgggtggagaa ctcttttagcc 420  
gaatccagga tc当地ggagac caggcatca cagaaagaga agcatccgaa atcatgaaga 480  
gc当地cgttgc gggccatccag tatctgcattt caatcaacat tgcccatcgat gatgtcaagc 540  
ctgagaatct ct当地atacacc tccaaaaggc ccaacgc当地atc cctgaaactc actgactttg 600  
gctttggccaa ggnnaaccac cagccacaac tctttgatca ctccttgta tacaccgtac 660  
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<210> 239

<211> 1537

<212> DNA

<213> Homo sapiens

<400> 239

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cgtcggcgtt tctcctttct tgggcagtat ttttcccagc gccacgcggg ggctgggcca 180  
ttatgagctc tgcatttcca ggacctggc actattcagg acacggttcc agcgcagtgg 240  
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gagtggggat tcctgaaccc tgctcagaga gatttgtaca caactgtgt gctggagaat 360  
tatcagaacc tggctctggct gggactttcc atttctaaaat ctgtgatttc actgttggag 420  
aaaaggaaac tgcccttggat aatggcaaaa gaagagataa gaggcccatt gccagatgtg 480  
ccaggtgcag agattaagga gttatctgca aagagggtca ttaatgaagt attatcgac 540  
tttgacacag tgataaaaatg tacaagaaac gtatgttaagg aatgtggaaa tctataactgc 600  
cacaatatgc agcttactct ccataagaga aatcatcacaaa aaaaatg caatcagtgt 660  
ttagattgtg gaaaaatactt cactcgtcaa tcaactctca ttcagcatca aagaatccac 720  
acggggagaga gaccctataa atgtAACGAA tgtattaaaa cttcaacca gagggcacac 780  
cttacctacg atgagagaat tcacacttgt gagaacacctt acaaatgtaa ggaatgcagg 840  
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caaagtggcc agctcattak acatcagaaa actcattctg gagaaaaacc ctatgagtgt 1080  
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ccgtataaat gcaagggatg tggaaaagcc ttcaatgcgc actcttccct tttactcat 1380  
aagagaacac acagtggaga gaaaccctat acatgccatg cctgtggaa ggccttaat 1440

acttcctcca cactttgtcm acatwataga attcatactg gtaaaaacc ctccatgtgc 1500  
agtcaatgcg ggaagtctt agtcttagc tgcaggt 1537

<210> 240

<211> 1334

<212> DNA

<213> Homo sapiens

<400> 240

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gcccattt ctaggcactt gttggcaga atgtcacacc tgccatgaa actcctgcgt 120  
aagaagatcg agaagcggaa cctcaaattt cgccasggaa cctaaagttt cagggggcct 180  
caaatctgac cctatcgaa actcaaaaatg gagatgtatc tgaagaaaaca atggaaagta 240  
gaaaggtaa aaaatcaaaa caaaagccca tgaatgtggg cttatcagaa actcaaaaatg 300  
gaggcatgtc tcaagaagca gtgggaataa taaaagttac aaagtctccc cagaatcca 360  
ctgtattaag caatggagaa gcagcaatgc agtcttccaa ttccagaatca aaaaagaaaa 420  
agaagaaaaa gagaaaaaatg gtgaatgtatc ctgagcctga tacaaaaaaa gcaaaaactg 480  
aaaacaaagg gaaatctgaa gaagaaagtgc ccgagactac taaagaaaaca gaaaataatg 540  
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caggagctt tgaggatact tcgtttgtt ctctatgtaa ttccgtcaat gaaaacactc 660  
tgaaggcaat aaaagaaatg gttttacaa acatgactga aattcagcat aaaagtatca 720  
gaccacttctt ggaaggcagg gatcttcttag cagctgcaaa aacaggcagt gttttttttt 780  
tggctttctt catccctgca gttgaactca ttgttaagtt aaggttcatg cccaggaatg 840  
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gataaagcga atgcmacagt gggatggct kgaacagggg atatgtttgt ttggccctt 1320  
ctgaaaaaga gttt 1334

<210> 241

<211> 2438

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (71)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (879)

<223> n equals a,t,g, or c

<400> 241

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cctgaaactg ncacccatcca accttcaagg ctttgttgc acaaagctt attatgcaaa 120

cccatcacac agactaaagc cacctcttgc aaaccacata cccaaaacaa agaatgccag 180  
acagaagaca ctccaagtca gcccagatta ttgkggkgcc agttccgtac cagkgttgt 240  
cccatacctc ttacctttat actcaatatg ctccagtc acatccatg 300  
tgcctgccc tatgtttatt ccattttcaa tggatagtga agataaaagtc acagagagta 360  
ttgaagacat taaagaaaag cttccacac atccatttga agctgtatctc cttgaratgg 420  
cagaaatgtat tgcaagaatg gaagagaaga agactctatc tcaggagag tcccaaactt 480  
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gtggtgatct tgaatcagag gcagtatcta ctccacatag ctgggaggaa gagctgaatc 600  
actatgcctt aaagtcaaat gctgtcaag aggctgattc agaattgaag cagttctcaa 660  
aaggggaaac tgaacggacc tggaaagcaga tttccatca gactccttgc acccacttaa 720  
taaaggacgg gaatccaggc acgttcccg acaagacgacg acacagagat ggcttcccc 780  
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aaggagcctt tcaaggctgc tcagtgccg ggatgacant gaaatacatg tatggggtaa 900  
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<210> 242  
<211> 139  
<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc feature  
<222> (137)  
<223> n equals a,t,g, or c  
  
<400> 242

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gggttggarc cagwcggttg atggaagttg aacaggtgct ggagtcggcg cgcaaagcaa 120  
tagggactag ggatcgnncg 139

<210> 243  
<211> 479  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (462)  
<223> n equals a,t,g, or c

<400> 243  
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agtcacaaaa gattttgcat gtcaagattc tagcctttt cttctggtgt actgagaggc 120  
cagaggagcc cattcttaggg actaagtatt gacagaattt gggtctgtgg caagaattac 180  
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aaacagaaaag attggaatag gattgraatg gagtctcccc gtgatTTAA aaaacactta 300  
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atgggtggat catgagggtca ggagatcgag accgtcctgg ctaacatggt gaaaccccgg 420  
ctctactaaa aatataaaaaa aattaacccg gocgtggtgg cnnggcgcct gtagtccca 479

<210> 244  
<211> 584  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (582)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (583)  
<223> n equals a,t,g, or c

<400> 244  
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tgcccacccgc catctccagc tggtgccaag acagagattt ctttaagtgg caaatcacct 120  
ttattagcag ctactttgc ttactggac aatattcttgc gtccttagagt aaggcacatt 180  
tgggctccaa agacagaaca ggtacttctc agtgtatggg aaataacttt tcttgccaac 240  
cacactctaa atggagaaaat ctttcgaat gcagagatgt gtgctataga tggaaagttt 300  
tttgccttgtt ctgaaaagg agtgattatt gtttcattaa tctttgtatgg aaactggaaat 360  
ggggatcgca gcacatatgg actatcaatt atacttccac agacagaact tagttctac 420  
ctccccacttc atagagtgtg tggtgataga ttaacacata taatccggaa aggaagaata 480  
tggatgcata agggaaagacm agaaatgtcc agaagattat cttagaaggc acagagagaa 540  
tggaaagatca ggtcagagta ttattccaaat gcttactgga gnng 584

<210> 245  
<211> 332  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (235)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (272)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (288)  
<223> n equals a,t,g, or c

<400> 245  
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ccccaggttg tgcgcttgcc agggccacat cttgagccct cgctctgctc ctgcgagagc 120  
cgctgctgcc ccaccccaat ccccaaccag ccacccctc ctgcctccct gccatctgtc 180  
ccttcatcc tccctggcgt gccaagcgc tgcgcattggca ccgcctgtta cctancccag 240  
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aactcagccc tgccactcccg tgctctgaag ct 332

<210> 246  
<211> 1617  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (215)  
<223> n equals a,t,g, or c

<400> 246  
cccgagatcc cttcccaaga gtgctctgcg ccgwgaagaa qcggtccccg gggactkggg 60  
gcattttgtt ttggctggag ctggagtaac aagatggcgt cgtccgcgga gtgacagggg 120  
tccctctggg ccggagccgg cggcagtggt ggcagcggta tcgcgcctt agctcaccgc 180  
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agtggcccaag cctggtaacc gccgagaagc cttcacaaaa ctgcggccctg gaaaaagaaa 300  
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aacggcgagg aagtggcagt gaagctagaa tctcagaagg ccaggcatcc ccagttgctg 660  
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gacctttca atttctgttc aagaagggtc acaatgaaaa ctgtacttat gtttagctgac 840  
cagatgatca gtagaattga atatgtgcata cacaagaattt ttatacacag agacattaaa 900  
ccagataact tcctaattggg tattggcgt cactgtaata agttattcct tattgatttt 960  
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agtcgccgag atgacatgga atcatttagga tatgtttga tgtatTTAA tagaaccagc 1140  
ctgcccattgc aagggtctaaa ggctgcaaca aagaaacaaa aatatgaaaa gatttagtcaa 1200  
aagaagatgt ccacgcctgt tgaagttta tgtaaggggt ttcctgcaga atttgcgatg 1260  
tacttaact attgtcgtgg gctacgctt gaggaagccc cagattacat gtatctgagg 1320  
cagctattcc gcattttttt caggaccctg aaccatcaat atgactacac atttgattgg 1380  
gacaatgtta aagcagaaag cagcacagca ggcagcctct tccagtggc agggtcagca 1440  
ggcccaacc cccacaggca agcaaactga cmaaaaccaag agtaacatga aaggtagt 1500  
rccaagaacc aagtgacgtt acagggaaaa aattgaatmc aaaattgggt aattcatttc 1560  
taacagkgtt agatcaagga ggkgtttta aaatacataa aaatttggct ctgcgtt 1617

<210> 247

<211> 1449

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1447)

<223> n equals a,t,g, or c

<400> 247

cgcggggctg gtagcggccg gagccgtcg akttctctac cctgcttcgc gagcgggcga 60  
gagaacgcga gtcccaggat cccccggcacc casttctctt ccactgcatt cccccggcgc 120  
gtgtgggacc gaggtggaca tggatccgca gaggtccccctt ctattggaa taaaggggaa 180  
catagaactg aagagacctc tgattaaggc cccttcccag ctgcctctct caggaagcag 240  
actcaagagg aggcctgacc agatggaa tggcctggag cctgagaaga aacggacaag 300  
aggcctgggt gcaasgacca aaattaccac atcccacccca agagttccat ccctcaactac 360  
agtgccacag acacaaggcc agaccacagc tcaaaaagtt tccaagaaga caggaccccg 420  
gtgttccaca gctattgcca cagggttgaa gaaccagaag ccagttccctg ctgttccctgt 480  
ccagaagtct ggcacatcg gtgttccctcc catggcagga gggaaagaaac ccagcaaacg 540  
tccagcctgg gacttaaagg gtcagttatg tgacctaaat gcagaactaa aacggtgccg 600  
tgagaggact caaacgttgg accaagagaa ccagcagctt caggaccagc tcagagatgc 660  
ccagcagcag gtcaaggccc tggggacaga ggcacacaaca ctggaggggc atttagccaa 720  
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aatggagcgc cggcgaactgc acaaccagct gcagaactc aagggcaaca tccgtgtatt 1080  
ctgcccgggtc cgcctgtcc tgccggggga gccactcca cccccctggcc tcctcctgtt 1140  
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cgagcggcgt gggaccctga gtggggcacc agctccca actcgccatg attttccctt 1260  
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tgtccagtc gcccggatg gctatccakt atgcataatggc acacargcag 1380  
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ctcgggncc 1449

<210> 248  
<211> 1484  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (37)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1477)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1478)  
<223> n equals a,t,g, or c

<400> 248  
ccacgcgtcc gcgacgctg gacggacgcg tgggtcnggt taggaggagc taggotgcc 60  
tcggggccgt gcagatacgg ggttgcttt ttgctcataaa gagggggcttc gctggcagtc 120  
tgaacggcaa gcttgagcaa cgccgtaaaa atattgcttc ggtgggtgac gcggtacagc 180  
tgcccaaggg cgttcgtaac gggaatgccg aagcgtggga aaaagggagc ggtggcggaa 240  
gacggggatg agctcaggac agagccagag gccaaagaaga gtaagacggc cgcaaaagaaa 300  
aatgacaaaag aggccagcagg agagggccca gcccctgtatg aggacccccc agatcagaaaa 360  
acctcaccca gtggcaaacc tgccacactc aagatctgct cttggaaatgt ggatgggctt 420  
cgagcctgga ttaagaagaa aggattagat tggtaaagg aagaagcccc agatatactg 480  
tgccttcaag agaccaaattt ttcagagaac aaactaccag ctgaacttca ggagctgcct 540  
ggactctctc atcaatactg gtcagctct tcggacaagg aagggtacag tggcgtggc 600  
ctgctttccc gccagtgccc actcaaagtt tcttacggca taggcgakga ggagcatgat 660  
caggaaggcc gggtgtattgt ggctgaattt gactcgttt tgctggtaac agcatatgta 720  
cctaattgcag gccgaggtct ggtacgactg gagtaccggc agcgctggga tgaaggcttt 780  
cgcaagttcc tgaaggccct ggcttcccgaa aagcccttg tgctgtgtgg agacctcaat 840  
gtggcacatg aagaaatttga ctttcgcaac cccaaaggggaa acaaaaagaa tgctggcttc 900  
acgccacaag agcgccaagg cttcgggaa ttactgcagg ctgtgccact ggctgacagc 960  
tttaggcacc tctaccccaa cacaccctat gcctacacctt tttggactta tatgtatgaat 1020  
gctcgatcca agaatgttgg ttggcgcctt gattactttt tgggttccca ctctctgtta 1080  
cctgcattgt gtgacagcaa gatccgttcc aaggccctcg gcagtgatca ctgtcttatac 1140  
accctataacc tagcaactgtg acaccacccc taaatcactt tgagcctggg aaataagccc 1200  
cctcaactac catttccttct ttaaacactc ttcagagaaa tctgcatttctt atttctcatg 1260  
tataaaacta ggaatcctcc aaccaggctc ctgtgataga gttttttaa gcccaagatt 1320  
ttttatttga gggtttttg tttttaaaaaaa aaaaattgaa caaagactac taatgacttt 1380  
gtttgaatta tccacatgaa aataaaagagc catagttca aaaaaaaaaaaa aaaaaaaaaaa 1440  
aaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaanngg gggg 1484

<210> 249  
<211> 2422

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (2354)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2408)  
<223> n equals a,t,g, or c

<400> 249  
ggtcttgaat aaactactat accaggaggc acattttctc gctcaagcat cttacattga 60  
ccttcattaa aacaaaaata cgtagacaaggc ccacgcgtcc gcggacgcgt ggggagtctt 120  
tctaattttc cttttctaca gacccatctg accttccct ttctccccag gctgctcctt 180  
gccaggccga gcttaggtccc aatttcttccct cagcctctgc ttctccaccc tataatcttt 240  
ttatcacctc ccctccctcac acctgstccg gcttacagtt tcrttccgtg actagccctc 300  
cccsacctgc ccagcaattt actcttaaaa aggtggctgg agctaaaggc atagtcaagg 360  
ttaatgttcc ttttcttta tcccaaata gatagcgttt aggctttttt tcataaata 420  
taaaaaycca gcccagttca tgrctygtt ggcagcaacc ctgagacact ttacagccct 480  
agaccctaaa aggtcaaaaag gccrttttat tctcaawata catttttatta cccaatctgc 540  
tcccgacatt aaataaaaact cccaaaatata rawtctyggcc ctcaaaacccc acaacaggay 600  
ttaatttaacc tcrcccttcaa ggtgtacaat aatagaaaaa agttgcaatt cttgcctcc 660  
actgtgagac aaaccccccage cacatctcca gcacacaaga acttccaaac gcctgaacyg 720  
cagcrgcrag gcttcccttcc agaacctcct cccacaggag cttgctacac gtgcggaaa 780  
tctggccact gggccaagga atgcccgcag ccygggattc ctccctaaagcc rrgtcccatc 840  
tgtgtggac cccactgaaa atckgactgt tcaactcacc tggcagccac tcccagagcc 900  
cctggaacwc tggccmaagg ctctctgact gactcccttc cagatcttct tggcttagca 960  
gctgaagact gacactgccc gatcrcrccr gaagcmccct tgaccatcac ggatgccgag 1020  
ctatggtaa ctctcacagt ggaaggtaag cccgtccctt tcttaatcaa tacggaggct 1080  
acccackcca cattaccttc tttcaaggg cctgtttccc ttgcctccat aactgttgc 1140  
ggtattgacg gccaggcttc taaacctttt aactctggtg ccaacttaga 1200  
caataactttt ttaagcaactc cttttagtt atccccatct gcccagttcc cttattaggc 1260  
tgagacactt taactaaattt atctgcttcc ctgactattc ctggactaca gctgtatctc 1320  
attgccaccc ttcttcccaa tccaaagcct cctttgygtc ctcccttctgt ataccccccac 1380  
cttaaccac aagtataaga tatctctact ccctcccttga cgaccgatca tgcacccctt 1440  
accatctcat taaaacctaa tcacccttac cgcaactcaat gccagttatcc cattccgcag 1500  
cacgctttaa aaagattaaa gcctgttatac attcgccctgt tacagcatgg ccttttaaac 1560  
cctataaact ctcccttacaa ttccccccatt ttccctgtcc taaaacgaga caagccttac 1620  
aagtttagtc aggatctgag cctttagtcaac caaatgttt tgcctatcca cccccgtggtg 1680  
ccaaaccat atactcttct atcctcaata cctccctcta ctacccatta ttctgttctg 1740  
gatctcagac atgctttctt tactattgtt ttgcaccctt catcccagcc tctcttgcc 1800  
ttcactttaga ctgacccttga caccctttagt gctcaacaaa ttacctgggc tgcactgcca 1860  
caaggcttca cagacagcccc ccattacttc agtgaaggccc aaatttcatc ctcatctgtt 1920  
agtctactc ccgttcacccg ttctcaacta ctcatacatg ccctgcttctt cttaactg 1980  
ccggtttaca ctgtttctcc aagacatcac agctgatatac ttctgggtgt atccccaaac 2040  
tgccacttca aactctttaga gtaaataat aatctttgtt ggcaggactc tgctgaatct 2100  
ccttaggcac tctctaatca gatrtccctag gtcctcccaa ttcttagacc ttttatcac 2160  
gttttctcc ttctgttattt ccatttagtt tctcaattca tccaaaacccg tatccaggcc 2220

atcaccaatc attctataayg acaaatgttt cttctwacat ccccacaata tcaccctta 2280  
ccacaagacc tcccttcagc ttaatctctc ccactctagg ttccccasgtc gcccctaatac 2340  
ccgcgttgaag cagnccctgag aaacatcgac cattctctct ccataccaac ccccaaaaatt 2400  
ttggcgncc aaaacttaaa ac 2422

<210> 250  
<211> 574  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (8)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (38)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (44)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (77)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (558)  
<223> n equals a,t,g, or c

<400> 250  
ttttatgnca aaaaacgcaa cccacgcattt gggatggc caantcttc cttggaaatgg 60  
tctgtatgg ggtgaantcc atccagacgt caattaacac ttcccttatt ttgggggtgc 120  
ccaaactcggtt tccccaggat ttaaaagacta taacgatgtat aaaagtcaat ttccgcaccct 180  
gtccaaaggct tggcccggtt cctttccattt cccggcaata ctcgggttcaa tttaggtcttg 240  
tccccctcattt atctgtgagg actgaattcc acccccgctt ttcaacgcag gctctttgtt 300  
cgggaaaagt caaaccatct ctcaaaggat caaagagctc agccatagac agagccgcgc 360  
gaggaaagcg gagtcgctgc atcagatgaa agggggccctt cagcctcact cctcaccgc 420  
gctcctggaa tcttaaagac agggtcagga ggatcaggag ggacaaagagg gatggaggcg 480  
aaaggctgga tccttaatcc agggccggaga caaagccgcg ccagggagct cgcggcgcgc 540  
ggccccctgtc ctccggcnccg agatgaatcc tgcg 574

<210> 251  
<211> 1044  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1010)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1011)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1012)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1013)  
<223> n equals a,t,g, or c

<400> 251  
ggcgggctgg ctcaagtaaaag cgaggcgac gggggaaagat ggcggccggcc gttccacagc 60  
gggcgtggac cgtggagcag ctgcgcagtg agcagctgcc caagaaggac attatcaagt 120  
ttctgcagga acacggttca gattcgtttc ttgcagaaca taaaattatta ggaaacatttta 180  
aaaatgtggc caagacagct aacaaggacc acttggttac agcctataac catcttttg 240  
aaactaagcg ttttaagggt actgaaagta taagtaaagt gtctgagcaa gtaaaaaatg 300  
tgaagcttaa tgaagataaa cccaaagaaa ccaagtctga agagaccctg gatgagggtc 360  
caccaaaaata tactaaatct gttctgaaaa agggagataa aaccaacttt cccaaaaagg 420  
gagatgttgt tcactgctgg tatacagaa cactacaaga tgggactgtt tttgatacta 480  
atattcaaac aagtgc当地 aagaagaaaa atgccaagcc ttttaagttt aaggtcgag 540  
taggcaaaatg tattcagagga tgggatgaaatg ctctcttgac tatgagtaaa ggagaaaaagg 600  
ctcgactgga gattgaacca gaatggcctt acggaaaagaa aggacagctt gatgccaaaa 660  
ttccaccaaa tgcaaaaactc acttttgaag tggaattatgtt gatatttatg taaaatagca 720  
gtgcttcagc tctaaaggata ttagcaacaa tgataaaaact tggccttggaa gaaatttaca 780  
caactagtttta gaacttggta ctattgtaaa ggaagagttca actggaaaat tcaaggagtt 840  
aataaaaatgg ttttacttgg tcccagctt tgagagataa atccctttagt aatccctgg 900  
ctaaaataact ttcctacagc tgtgtaaaat actggtcaag gagaactttt ccctttacc 960  
tcatgttgta aacttaagtg gctcaataaa aattgatcca ctgtcttgan nnnaaaaaaaaa 1020  
aaaaaaaaaaaa aaaaaaaaaaaa aaaa 1044

<210> 252  
<211> 1029  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (835)  
<223> n equals a,t,g, or c

&lt;400&gt; 252

ggcacgagcg gccactgcct gccgcgwgcg gagccggagc ccgagcctga gtggcgccgg 60  
gccccacgtg gggctcctgg gcccgcggcg cgggcggcg atgctccaga ggcctgacca 120  
gccatggagg ccgaggcagg cggcctggag gagctgacgg acgaggagat ggcggcgcta 180  
ggcaaggaaag agctagtgcg gcccgcgcgg cgggaggagg cggcgcgcct ggcggcactg 240  
gtgcagcgcg gcccgcctcat gcaggagggtg aatccgcage tgcagggcca cctggcgag 300  
atccgcgagc tcaagcagct caaccggcgt ctgcaggcag agaaccgtga gctgcgcac 360  
ctctgctgct tcctggactc ggagcgcacg cgcggcgcc ggcgcgcacg ccagtggcag 420  
ctcttcggga cccaaagcattc cccggccgtg cgcgaggacc tggcgccgtg ttggcagaag 480  
ctggccgcgc tggaggggcg ccaggaggag ctgcgtgcggg agaaccttagc gcttaaggag 540  
ctctgcctgg cgctgggcga agaatggggc ccccgccggcg gccccagcgg cgcggggggga 600  
tcaggagccg ggcacgcacc cgagcttgc ttgcggccgt gcgccgcggc cgaccttaggc 660  
gatggaaagct ccagcactgg cagcgtggc agtccggatc agttggccct ggcctgttcc 720  
cccgatgatt gaaggcactg cttcctccac gcccgcgc gcccgatgtt ctcccgagc 780  
cccggggaccg ctgtggaccc cgggacctgg acgcgcgtt gctgcgcagg agggncgcgt 840  
ggcatggact aaaaatcct gacacaaga agggccctc gctcttgctg gcagggcagc 900  
agggggactg aaggctggag cggagggact tgctgggggt tggattgggg gtaataaacc 960  
cgacggaaag cggaaaaaaaaaaaaaaaaaaaaaaa aaaaaggrcg gccgctcgcg 1020  
atctagaac 1029

&lt;210&gt; 253

&lt;211&gt; 475

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 253

ggcacagcca ggtgctcctg acggacttaa gtgcaaaaaa ctgactccat gctaggaacc 60  
actgagttct caaccagtga gtttatgatt cctattttaa aaataacctt taaagtctga 120  
ttataaaaagt agtacatagt ctttgtggaa aatttattaa gtacagtaag tgcagaagaa 180  
gaaataaaatc actcataatc ccagcagaca gaattaatca ctgtcatttt aggtgtattt 240  
ttttgcagag taaaacatgt aaacattta catagacata aatacaaaca tgataagcat 300  
tggacatgga aaatgggcag taaaattctgt acatgtgcct tcttgatatt ttgttgtatt 360  
tttawatcat gcyttttgc aaaatacatt ataaattaaa catggaattt cactagttt 420  
ctgtggatt cattttccat gggctggaat aatggccgg tccactatat ggggt 475

&lt;210&gt; 254

&lt;211&gt; 1724

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (440)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 254

ggcacagtagc agcaagaggg caaggacaat tgcttaagtt gacctctggg tccggaatcg 60  
cggggcaaaa tggcgccggc caggtgttgg aggcccttgc tacgcggtcc gaggcttca 120  
ttgcacacccg cggtaatgc cgcgcacg gctacagaaa cgacctgcca agacgtcgcg 180  
gcgacccccc tgcgcggta cccgcgcatt gtggcctcca tgacagccg acaagact 240  
gcacggctgc ggcggatcga ggcgtggcag ggcacggcgc acgctgcgg a gtcggtagac 300

gagaagctgc gaatcctcac caagatgcag tttatgaagt acatggttt cccgcagacc 360  
ttcgcgtga atgccgaccc ctggtaccag tacttcacca agaccgtgtt cctgtcggtt 420  
ctgcccgc ccccagcggan cccgagcccg agcccgaaacc cgaacctgaa cctgcgtgg 480  
acctcgcggc gctgcgtgcg gtcgcctgcg actgcctgct gcaggagcac ttctacctgc 540  
ggcgcarcgg cgctgtgcacc gttacgagga gagcggaggtc atatcttgc ccttccttgg 600  
tcagctggtg tcaaccctcg tgggcctct cagccccacac aaccggccc tgccgcgtgc 660  
cgccctcgat tatacatgtcc cagttcattt ttactgggtg cgtggtaag aaattattcc 720  
tcgtggtcat cgaagaggc gaattgtatc cttgcgatac cagatagatg ataaacccaaa 780  
caaccagatt cgaatatcca agcaactcgc agagttgtg ccattggatt attctgttcc 840  
tatagaaatc cccactataa aatgtaaacc agacaaactt ccattattca aacggcagta 900  
tgaaaaccac atatttggtg gctaaaaaac tgcagatcct tgctgttacg gtcacacccca 960  
gtttcatctg ttacctgaca aattaagaag ggaaggcgtt ttgagacaaa actgtgctga 1020  
tcagatagaa gtttttttta gagctaattgc tatttgcattt ggactggagc 1080  
acaagctatg tatcaaggat tctggagtgta agcagatgtt actcgaccc ttgtctccca 1140  
ggctgtgatc acagatggaa aataactttc cttttctgc taccagctaa atactttggc 1200  
actgactaca caagctgatc aaaataaccc tcgtaaaaat atatgttgg gtacacaaag 1260  
taaggcctctt tatgaaacaa ttgaggataa tgatgtgaaa gtttttaatg atgatgttct 1320  
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aataatgtatg agatttggta ctgtcaacta ttaaatacat tgatttttga gacaaatatt 1500  
tcttatgtca acctgttatt agatctctt ctctgctcaa attcatact gaaagattta 1560  
attttagtta cctttgttg attaaaaat aattgcattt gtatattgt aactgataag 1620  
acaaaattgag ttattgagct attaaatgca cattttaata taaatgcaga aatcccaa 1680  
aaaatgctaa catactgaat tcagtaatta aaagaacccca ctgc 1724

<210> 255  
<211> 306  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (195)  
<223> n equals a,t,g, or c

<400> 255  
ggcagagcgg ctccctcagct ccaggacctt gctagcagct gccctcagga agaagttct 60  
cagcagcagg aaagcgtctc camtctccct gccagcgtgc atccccagct gtsccacggm 120  
agagccttgg aaccctgtac ctgcagcaca gactccagra gcccagcctt ctgtcaaagg 180  
cccagaacac ctgttnagcat ctgctgcaga atcaagcgcac tctttcttca gaagcagtct 240  
caactgcagg cctattttaa tcagatgcag atagcagaga gctcctaccc acagccaagt 300  
cagcag 306

<210> 256  
<211> 890  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (862)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (881)

<223> n equals a,t,g, or c

<400> 256

ggcacgaggc ccggccgccc cctgccctct ccgcgtggcca cctgcgtcccg cccgcgccccat 60  
ggctggcaaa gcacacagggc tgagcgtga ggagagggac cagctgctgc caaaccttag 120  
ggctgtgggg tggaatgagc tggaaaggccg tcatgccttc ttcaaggcagt ttcatttcaa 180  
agacttcaac agggcctttg ggttcatgac aagagtggcc ctgcaggctg agaaaactgga 240  
ccaccatcct gaatggttta acgtgtacaa caaggtccac atcacgctga gcacccatga 300  
gtgtgcccgc ctttcagaac gggacataaa cctggccagc ttcatcgaac aagtagcagt 360  
gtccatgaca tagaccctgc ctttccttc tgaattttc cgggggaaag ggtgactgaa 420  
ctgggagtcc agggagggag ctgaggagcc cttaccctcc caccactccc ctcccaagac 480  
ccagccccc ccgttgaggg ctgagtctt gctgtggat gtgccagtg ccccaaccaac 540  
accaggaatt tagacctttt ccctgcacca ctctttcat cctggggct ctgttacact 600  
aatttgaata aactctcccc tttcttgca acttcccagc aacaataatg attttcttgc 660  
caggccgtct cttgctccct aattcattc ccaggaagct gtgatacagg gtgaaataaaa 720  
gtcttgctt agaaaccagg accctaaacc ccacactatg taatagaac acatgtgttt 780  
ttatgtctca aataaaaacta ttatatact tggaaaaaaaaaaaaaaaaaaaaaaa 840  
aaaaaaaaaaa aaaaaaaaaaa anaaaaaaaaaaa aaaaagaaaat naaaaaaaaaaa 890

<210> 257

<211> 1159

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (84)

<223> n equals a,t,g, or c

<400> 257

ggcacgaggc ggagggaaaga gcggggcgggc gggaggcgcc ggcccagac gcccggggaa 60  
ggagctacga gtagccgccc agangcccg garccagcga cgaccgaccc agccgagccg 120  
ccgcccggc cgcggccca tggccggccgc caaggacact catgaggacc atgatacttc 180  
caactgagaat acagacgagt ccaaccatga ccctcagttt gagccaataag tttctttcc 240  
tgagcaagaa attaaaacac tggaaagaaga tgaagaggaa ctttttaaaa tgcgggcaaa 300  
actgttccga tttgcctctg agaacgtct cccagaatgg aaggagcgag gcactgggtga 360  
cgtcaagctc ctgaagcaca aggagaagg ggccatccgc ctccatgc ggagggacaa 420  
gaccctgaag atctgtgcca accactacat cacgccatg atggagctga agcccaacgc 480  
aggttagcgac cgtgcctggg tctggAACAC ccacgctgac ttgcggacg agtgcggccaa 540  
gccagagctg ctgcccattcc gcttcctgaa tgctgagaat gcacagaaat tcaaaaacaaa 600  
gtttgaagaa tgcaggaaag agatcgaaga gagagaaaaag aaagcaggat caggcaaaaa 660  
tgatcatgcc gaaaaagtgg cggaaaaagct agaaagcttc tcggtaagg aggagaccaa 720  
ggaggatgct gaggagaagc aataaaatgt cttattttat tttctttcc tctctttcat 780  
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ttttacaagg gacgttatataa aagaactga actcaacatt caggttgtt tttttttgt 900  
ttctaagttt ttgccttattt gaagatgact tcagaaaatc cattccccag tcatgaaaat 960

gtacttgct aactttcttt tccatagtgg aaacacttat ttatagtcat caaaaatagt 1020  
gaataaaaaa cacatttggaa acctggaaaa aaaaaaaaaa aaaaaaaaaa 1080  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggggggggac ggacgcgtgg gcggacgcgt 1140  
ggcgacgc gtgggtcga 1159

<210> 258  
<211> 755  
<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc feature  
<222> (755)  
<223> n equals a,t,g, or c

<400> 258  
accacgcgt ccggttctag atcgcgagsg ccgccttttt ttttttwta gaagggccag 60  
cttactgttgcgttggcaaaat tgccaacata agttaataga aagttggcca atttcacccc 120  
attttctgtgttggggctcacattgcaa tgttcaatgc cacgtgtgc tgacaccgac 180  
cggagtagtacta gccagcacaa aaggcagggt agcctgaatt gctttctgtctttacattt 240  
ctttttaaat aacattttag tgctcagtc ctactgagta ctcttctct cccctccctct 300  
gaatttaatt cttaacttgcgaaat aggattacac atttcactgt gatgtatatt 360  
gtgttgcaaa aaaaaaaaaa gtgtcttgtt ttaaaaattac ttgggttgg aatccatctt 420  
gtttttcccatggaaact agtcattaaac ccatctctga actggtagaa aaacatctga 480  
agagctagtc tatcagcatc tgacaggtga attggatggt tctcagaacc atttcacccc 540  
gacagcctgt ttctatccctgtttaataat tagttgggt tctctacatg cataacaaac 600  
cctgctccaa tctgtcacat aaaagtctgt gacttgaagt tttagtcagca cccccaccaa 660  
actttatttt tctatgtgtttttgcaaca tatgagtgttttgaaaataa agtacccatg 720  
tctttatttag aaaaaaaaaa aaaaaaaaaa aaaan 755

<210> 259  
<211> 714  
<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc feature  
<222> (665)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (704)  
<223> n equals a,t,g, or c

<400> 259  
gtctatttagc ttttacctca aaattttaag ccagaactat catctttgtt tttttatttt 60  
ctatctttaa acatttatct gtgaagtgc aaatggctca cagctgtgag agcaaatgga 120  
catctccctcc tgaactctga gaagatgtca aaatccacag gcaacttct cacttgacc 180  
caagctatttgc acaaatttc agcagatgga atgcgtttgg ctctggctga tgctgggtac 240  
actgttagaag atgccaactt tggaaagcc atggcagatg caggtattct ccgtctgtac 300

acctgggttag agtgggtgaa agaaaatggtt gccaaactggg acaggctaag aagtggtcct 360  
gccagcaatt tcaatgatag agttttgcc agtgaattga atgcaggaat tataaaaaca 420  
gatcaaaact atgaaaagat gatgtttaaa gaagcttga aaacagggtt ttttgagttt 480  
caggccgcaa aagataagta ccgtgaattt gctgtggaag ggatgcacag agaacttgt 540  
ttcccggttta ttgaagttca gacacttctc ctcgcctccat tctgtccaca tttgtgtgag 600  
gcacatctgg gacactcctg gggaaagct gacttcaatt atggaatgst ttcatggcc 660  
tgtgnmaggt gcctgttta atgaaagttt ttaattacac tccntcacag tatac 714

<210> 260

<211> 525

<212> DNA

<213> Homo sapiens

<400> 260

ggctttacgg ctgcgagaag acgacagaag ggggtggtgg tcgcgagrrga gccggaaaga 60  
tgggtgttac cagatctgca cgggctaagg ccagcatcca agccgcgtcg gctgaaagtt 120  
ccgggcaaaa gagttttgtc gctaattggg ttcaagcgca tccagaaagt agtactggat 180  
ctgatgcccc aactactgtc gaatcacaga ccactggaa gcaaagtttta atccctagaa 240  
ctcctaaagc tagaaagagg aagagcagaa ctacaggctc actaccaaag gggactgaac 300  
catctacgga tggagagacc tctgaggcag agtcaaattt ttctgtgtct gagcaccatg 360  
ataccatttt aagggttaact aggagaaggc agatcttaat tgcatgctcc ccagtgtcca 420  
gtgttaggaa aaagccgaaa gtaactccaa caaaggagtc ttacactgaa gaaatagtgt 480  
ctgaagcaga atctcatgtt tcaggttattt ctaggaattt tgctt 525

<210> 261

<211> 3000

<212> DNA

<213> Homo sapiens

<400> 261

gaattctcgg gtgcacccac gcgtccgacc cacgtgtccg gttccccgg tgcctccccc 60  
tccccctccc cgccccccc ccgcgtcccc ccagcgcc cacctctcgcc gccccggcc 120  
tcgcgaggcc gcagccttagt gagattccca acctgttagt catccgcaca cccactcagg 180  
agttggggcc cagctcccaag ttacttggt ttcccttggc cagcctgggg ctctgcccag 240  
gccaccacag gcaggggtcg acatggcaga gacactggag ttcaacgcacg tctatcagga 300  
ggtgaaaggt tccatgaatg atggtcgact gaggttgagc cgtcaggcat catcttcaag 360  
aatagcaaga caggcaaaagt ggacaacatc caggctgggg agttaacaga aggtatctgg 420  
cgccgtgttgc ctctggccca tggactttttt ctagcttacaa agaattggcca tgtctacaag 480  
tatgtggct tccgagaatc ggagtttggaa aaactctctg atttcttcaa aactcactat 540  
cgcccttgcgc taatgggaa ggacctttgt gtgaagggtt ggaactgggg gacagtgaaa 600  
tttgggtggc agctgtttc ctttgacatt ggtgaccagc cagtcttgc gataccccc 660  
agcaatgtgt cccagtgcac cacaggcaag aatgagggtga cactggaaattt ccacaaaaac 720  
gatgacgcag aggtgtctct catggagggtg cgcttctacg tcccacccac ccaggaggat 780  
ggtgtggacc ctgttgaggc ctttggcccaag aatgtgttgc taaaggcggaa tgtaatccag 840  
gccacgggag atgcccatttgc catcttccgg gagctgcagt gtctgactcc tcgtgtcggt 900  
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gggcactcag gggcccagt cattacctgt tcctacaagg caagctcagg actgctctac 1320  
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atgaacccaa gctacgatga atatgctgac tctgatgagg accagcatga tgcctacttg 1620  
gagaggatga aggaggaagg caagatccgg gaggagaatg ccaatgacag cagcgatgac 1680  
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aagcctgtgg aggtgaagaa gggcaaagac cccaatgccc ccaagaggcc catgtctgca 1920  
tacatgctgt ggctcaatgc cagccgagag aagatcaagt cagaccatcc tggcatcagc 1980  
atcacggatc ttccaagaa ggcaggcgg atcttggagg gaatgtccaa agagaagaaa 2040  
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tatgaagggg gcccaggcga gtcttctaag agggacaagt caaagaagaa gaagaaagta 2160  
aaggtaaaga tggaaaagaa atccacgccc tctaggggct catcatccaa gtcgtcctca 2220  
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gccagtactc cccccagctc agaggactca gcgtcaggat ccgtagata gaaacggagg 2400  
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ggcaggagga aggttatac gcgtttttgt atgggttttg tggggcgtt gccggggact 2880  
ttgcgttaagt gggcccgagg gggagagagg ctccctccgcg agccccgcac gcgggttgcgt 2940  
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<210> 262

<211> 966

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (935)

<223> n equals a,t,g, or c

<400> 262

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ggaaatgtca gtaagggcac atgagaaaac actttaagaa cctattcttc caaagatctt 120  
tccagtatct tatgacaaca cagtaaatta taccactcc aaatgcaaaa gctgaaaacta 180  
ctctgcttcc tcacttamct acacttttga ctttcgaaat acatttctt cttcggatat 240  
gagctgaaaa ctccttatataa aaggctcca actctgcagc cctaatttattt ctgttggcc 300  
caagaaaaat cctaatttgtt ttatctaagg agacggatt ttccaaactt gtagaggcat 360  
gtgtgtgtt ttgtttaag gaagctgttt tggtaataaaa aagtcaactgr aggtcataaaa 420  
ttcatgtttaa cacatccagt gtacatgaag taggcaccga gttaaactat ttgtctacta 480  
tatagcatgt catctaaaaa gccttatttt ttcctcaaaa tattaactt atttitctcc 540  
ctgtaaaaatc aagacacagt taaaatgttag ctttcctcat tttctggaa tactttctaa 600

caagatatgc ttcttccaa ttggacttct aaatttctag caattctaac agtcataaa 660  
agaggcaacc ccaaaaagtgt agcaggtact gaataacaga tttgcagcct tggtatcca 720  
cattaaatt tgaatctaa gtgaattact tcaagctgat ttcttaggtc aaggagagat 780  
tatggcctt aaatgcctga taaggtcaca tacacaattt caagtgcatt atagtaaatc 840  
catgtgwaca gctctcacag ctactaacct gcttctgccc tcacgggtag cgtgcacaat 900  
cttcatcgca tgcctgggt gggtggtt ggganccagt taaaaaacc ccttgggtc 960  
atgttc 966

<210> 263

<211> 2738

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (762)

<223> n equals a,t,g, or c

<400> 263

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catgctgaag cctttctcg tcctttgagt cgaaatgaag ttgttggtt aattttccgt 120  
ttgacaatat ttgtgcagt gacatactt actatcaaattt ggatggtaga tgcaattgat 180  
ccaaaccagaa agcaaaaagt agaagctcag aaacaggcag aaaaactaat gaagcaaatt 240  
ggagtgaaaa atgtgaagct ctcagaatat gaaatgagta ttgctgctca tcttgtagac 300  
cctcttaata tgcattgttac ttggagtgtat atagcaggt tagatgatgt cattacggat 360  
ctgaaagaca cagtcattttt acctatcaaa aagraacatt tgtttgagaa ttccaggctt 420  
ctgcagcctc caaaaagggtgt tcttctctat gggctccag gctgtggtaa aacgttgatt 480  
gccaaaggcca cagccaaaga agcaggctgt cgatttattt accttcagcc ttgcacactg 540  
accgataagt ggtatggaga atctcagaaa ttggctgctg ctgtcttc ccttgc当地 600  
aagctacaac catccatcat ctttataagat gaaatagact ccttctacg aaaccgttca 660  
agttctgacc atgaagctac agccatgatg aaagctcagt ttatgagttt ctggatgga 720  
ttggatactg atcacagctg ccaggtcata gtaatggag cnrccaatcg tcctcaggac 780  
cttgactcgg ctataatgag aagaatgcct acaagatttcc atatcaacca gcctgcttta 840  
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gacctgctag aagttgcccc gggaaactgtat gggtttcag gaagtgcactt aaaagagatg 960  
tgtcgagatg ctgccttcct ctgtgttata gaaatgttta attctacatc agaagaaagc 1020  
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tgcgttgcgtg tgcgttgcgtg tatgtatgtt tataattaaat gtatataatcc acacattttt 1560  
tattgacatt ctgttagatgat gtttgaatat agaaactttt ttaccccaa ctactgaatc 1620  
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cagccatgttgc ctcaacactg atttcacccctc ttgcgttataa acctttttttt tttaaattttt 1920



taaaatgtct ctaacacctg 960  
accagaaaata ctgggtttt atataaatgc ttcatagatt tggttatga taaagggcac 1020  
ataactctcc taaacacctac accacacctt gaataggat aataagtcca catcaatgct 1080  
gatgccttag ctattattaa actcttacag tatgatgtaa agtggaaagta caatgtt 1140  
tcattcctag gccaaaccttg accagttta tacagaaaaca tgtgccaact tttctgtttg 1200  
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aactttat aagcttggaaag ttaatgtctc attgtttca ttgttctaaa taaacacctt 1440  
ttcccttgag tattgtcta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1500  
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<210> 265

<211> 1568

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1318)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1320)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1469)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1482)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1502)

<223> n equals a,t,g, or c

<400> 265

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ctgctggact agctactgccc agttgtccct tcactgtctc ttctgttagtt gctgccagtc 120  
agcaactgtg tgcactaat acccgactc cttcatcgt cagaaaggcag ttgtttgcct 180  
gtgtgcctaa gacaagtcct ccagcaacag tgatttctc tgtgacaagg acttgttagtt 240  
ccctgccttc tgctcctctc gcacctatca ctagcgggca agctcccacc acatttctac 300  
ctgcaagtac ttctcaaggca cagtttttca cacaaggat ggagtcttc tctgtgtgc 360  
caccacacaa agagaaaatg tccacacagg accagcccat ggcaaaccta tgtacccat 420  
cttcaactgc aaacagttgc agtagctctg ccagcaacac cccggagct ccagaaatc 480

acccatccag tagtcccact cctacttcca gtaacacaca agaggaggca cagccatcca 540  
gtgtgtctga tttaagtctt atgtcaatgc ctttgcata taactcagaa cctgctccat 600  
tgactttgac atcacccaga atggttgtcg ctgataatca ggacaccagt aatttacctc 660  
agtagctgt accagcacct cgagttctc atcgaatgca gcccagaggt tcttttact 720  
ccatggtacc aaatgcaact attcaccagg atccccagtc tattttgtt acgaatccag 780  
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cccagccaca ctttcaatc acttcagcag tcttttgcgt agtagtcagg tgccagctaa 960  
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caacgttggg gccaacccaaa agggagtcag tgccagtcggaa ggatttcggaa aggttacctt 1440  
cccccaattt gggAACAGGA ggaggactng ggcccgaaatt tngggcaagg gaggggggttt 1500  
tnnnnncac aaggccccgg gggggAACCA gttttttgt tcggtttccc tttgggacaa 1560  
agtgggaa 1568

<210> 266

<211> 545

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (508)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (540)

<223> n equals a,t,g, or c

<400> 266

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gctgttggag cttttgcata tacccagcta atgaaaggca cttaagatgg ggcccatctg 120  
catcatcaca ttgaagtttt ctgtctaaag gaaggttcca gtcacccgtt accctttgc 180  
taaacacagt tgcagtgttg cagtgatattt catgacaaaa gtgcactcta gttttctgtg 240  
aatgattat ttctctgaa atgattctt gtcatgttga gtttctaaat gttaaagaga 300

acatagtgct tttgacctgt gggaaatctc atctggnta ccatggtgc gcacagacca 360  
tcaggaagaa ctgaaaagtt caggcaactt gagnaaaata aagtccaccac cmgcaaggar 420  
gctgtctaaa ataaccggra gattattamc ccagcacgtg gragartgtg ctagtggta 480  
gatgttwtgg aargctacta ggggtccncc cttaggtgcc tgtgctagtc ctaaggggn 540  
ggtgg 545

<210> 267

<211> 762

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (712)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (740)

<223> n equals a,t,g, or c

<400> 267

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aaggagctcg cggctggcac agagagccag gccttggtct ccgcccactcc ccgagaagac 120  
tttcgggtgc gctgcaactgc gaagcgggct gtgaccgaaa tgctacaact gtgcggccgc 180  
ttcgtgcaaa agctcgggaa cgctctgccc gaggagattc gggagccccgc tctgcgagat 240  
gcgcagtgga cttttgaatc agctgtgcaa gagaatatca gcattaatgg gcaagcatgg 300  
caggaagctt cagataattt ttttatggat tctgacatca aagtacttga agatcagttt 360  
gatgaaatca tagtagatat agccacaaaaa cgtaagcagt atcccagaaa gatcctggaa 420  
tgtgtcatca aaaccataaa agcaaaaacaa gaaattctga agcagtagcca ccctgttgc 480  
catccactgg acctaaaata tgaccctgat ccagtccttg cctgcattaa ttgaacaagg 540  
agagggattt tcccaagttc tcaggatgca acctggtatac caccttcaga ggattcacca 600  
agaagtcttt ttcaaggatgtc ataaggaaac cagatgctwa acctgagact ttatwacaca 660  
gattgaaaacc acaccaacag aaactggttt cagaaaaaac ctttacgtg gnacttgaaa 720  
aagaaagcaa acttaaagan ttggccccca aaagaaaaat gg 762

<210> 268

<211> 1433

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (893)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (947)

<223> n equals a,t,g, or c

<400> 268

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catggAACAG gacgtgtcg ggccgcgtct ggggaaagca gccgggcccc cagatgctgg 180  
agcgggagca ggccccgggc ccccgacac cctccgcggc accgcccgtct tttgtgcctt 240  
tcccccgtg gtcaccatctc gggtgtcttt taggagaatc ttcatgcag 300  
ctgcagcagc gtctcctgag agagaaggag gccaagatca ggaaggccctt ggacaggctt 360  
cgcaagaaga ggcacctgtct ccgcggcag cgacgcggc gggagttccc cgtgatctcc 420  
gtgggtgggg acaccaactg cgaaaagacc acgctgtatca aggactgac gggcgatgcc 480  
gccatccagc cacgggacca gctgttgc acgctggacg tcacggccca cgccggcacc 540  
ctgcctcact gcatgaccgt cctgtacgtg gacaccatcg gtttcctctc ccagctgccc 600  
cacggcctca tcgagtccctt ctccggcacc ctggaaagacg tggcccaactc ggatctcata 660  
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aagggtggacc tcgtgcccgg gtacagcccc acgaaaccga acgtcgtgcc cgtgtctgcc 840  
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cggggagaca gatcctact ctccgtgtga ggctccgagg ggmgcantca gctggctgt 960  
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ccaaagcgcc cgccggcagc gtccactcca agcctgagca tccacacaat tccagtggc 1320  
cctcggtgcc tgctgtgaac tgcttcctt cgaaatgttt ccgtaacagg acattaaacc 1380  
tttgwtttta ctccgtgaa aaaaaaaaaaaaaaaa aaaaaaaaaaaa ggg 1433

<210> 269

<211> 2278

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (205)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (335)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2277)

<223> n equals a,t,g, or c

<400> 269

cacagtatgg aaatacgggg aagcaggaga tagatccgga aaaataaaagt tgagaccaga 60  
ctgttagactg tcttgaatgc caagctaaag tggttatact ttattcagta aataaaca 120  
actggtagcg caagaaaagg agtgagcaag tggtaacaac ttaaagacaa ttcatttgc 180  
tccccacgtgtatcatga attnttggg cccaaagtca tatatagaat ttttaaata 240

attgatactt gatcaaagaa agcacaaaaga cataaaaata aaacattctt ggtgggggga 300  
aatggtttt aagaggcatt ttattaattt tacncaggt atattgcac tgcgtttac 360  
aaacaaaaar gaggtatgtg ggtaacatgt atgaaacact ggatcagaag gacccagtat 420  
ttgatgcaca aggaatagaa acagtcagaa gagattcctg ccctgctgtt tctaagatac 480  
ttgagcgttc tctaaagctg ctatitgaaa cgagagatat aagtctaatt aaacagtatg 540  
ttcagcgaca atgtatgaag cttctgaaag gaaaggccag catacaagac tttatcttg 600  
ccaaggaata cagaggaagt ttttcttata aaccaggagc ttgtgtcga gcccctgaac 660  
ttacaaggaa aatgctgact tatgaccggc gctctgagcc tcaggttggg gagcgagtgc 720  
catacgtcat catttatggg accccccggag taccacttat ccagcttgc aggcgcccg 780  
tggaaagtccct gcaggaccac actctgagac tgaatgtac ttactatatt accaagcaaa 840  
tccttccacc ctggcaaga atcttctcac ttatttgtat tgatgtctc agctggatc 900  
atgaattacc aagatccat aaagctacca gctctcgcg aagtgaacct gaaggcgga 960  
aaggcactat ttccacaatatt ttactacact tacactgtcc tgcgtgtat gacctaactc 1020  
agcatggcat ctgttagtaaa tgccggagcc aacccatcgca trttgcagtc atccctcaacc 1080  
aagaaatccg sgagttggaa cgtcaacagg agcaacttgt aaagatatgc aagaactgt 1140  
caggttgctt tgatcgacac atccccatgt tttctctgaa ctgcccagta cttttcaaac 1200  
tctcccgagt aaatagagaa ttgtccaagg caccatatct ccggcagta ttagaccagt 1260  
tttaaattgt caatatcaca gtattacagg tgctatttt ttcagtgctt accactaaac 1320  
tgcgtgcacat ggtgctttt aactttcatac gactcaagga tgccactgt ctgttatctg 1380  
aagactatga agacwtctat gctaaccgaa tttaaatgtt cttgttgatc tctgaatagc 1440  
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caggtgttgg atttgctcca gtatgttac catcttgtaa attcatgttga gtagatcatg 1560  
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ccttgaactg tctgtatcaa gacgtgttac ttccgagatat ccattcactt tataatttt 1680  
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tcaaaggataga tcgttattttt gatcaaactg tgcaaacagt agtaccacgt gtagcatttt 1860  
gaaacattat ttttaaaaaa atgctgttgc gctttagcta ttaatggggc attgtgagga 1920  
actgtgcaaa gacatttttgg ttacaaacact gtggccctgt tgcaataactt taaaataaa 1980  
aaatTTTt ccatttgctt gttttgtata gacatttcta ttgccttctaa atataactt 2040  
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aatgtgtatt tagaatattt gtataactgt gtaaaataaa aaaggaattha tgcgttcagt 2160  
gcattttttt ttaaactgga aatcattttt gttttttttttaataatgaa aaccatatta 2220  
aaattgaata aaatataaaaa taatataaaaa aaaaaaaaaa aaaaaaaaaa aaaatncc 2278

<210> 270  
<211> 2533  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1280)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2514)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (2531)  
<223> n equals a,t,g, or c

<400> 270

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ggtctgtcct cgggaactgc aaggccctgt gagcgggagg actgggatcc cggccgcggc 120  
tgctggaaac gtcaagctc agcggggccg cggacactga cctgtgctta gaactcatcc 180  
tggcccgcag agctgcgcg cagtcctgg cgtccccgtt ggccggctct tggagccact 240  
ttccccgagcg gaagtcaagcc cgcggctcg actccggcgg gacctgctcg gaggaatggc 300  
gccgcggggt tcaagcaactg tcttcctgtt ggccttgaca atcatagcca gcacctggc 360  
tctgacgccc actcaactacc tcaccaagca tgacgtggag agactaaaag cctcgctgga 420  
tcgcccatttc acaaatttgg aatctgcctt ctactccatc gtgggactca gcagccttgg 480  
tgctcaggtg ccagatgcaa agaaagcatg tacctacatc agatctaacc ttgatcccag 540  
caatgtggat tccctttct acgctgccc ggcctccag gcccctctcag gatgtgagat 600  
ctctatttca aatgagagcca aagatctgt tctggcagct gtcagtggagg actcatctgt 660  
tacccagatc taccatgcag ttgcagctt aagtggctt ggccttcct tggcatccca 720  
agaagcaactc agtgcctta ctgctcgct cagcaaggag gagactgtgc tggcaacagt 780  
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ctcgataat cgctaccacg tgccagttgtt ggttgtgcct gagggctctg cttccgacac 1140  
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cgttagagctc agagtcaaga tctccactga agttggcatac acaaattgtt atcttccac 1440  
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caagggcaca ttcatgcag acagccacca gaacttcgac ttgttcttcc agctggtaga 1560  
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gactggccag gaagtgggtt ttgttgcga gccagacaac aagaacgtgt acaagttga 1680  
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aaaacaggaa attcagcacc tggccgcga gcctgagaag aggccccccca ccgtgggtgc 1920  
caatacattc actgccttga tcctctcgcc gttgcttctg ctcttcgcctc tggatccg 1980  
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acatgctgt atgtgggac tcatgtatgt ctactggact cagctcaaca tggatccagac 2100  
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aaaactttat taaaaaaaaga aaaaagtcca gattgttagtt atacttttgc tggatccatc 2340  
gtttccccaa cacacagcag atacctgggt agctcagata gtctcttct ctgacactgt 2400  
gtaagaagct gtgaatattc ctaacttacc cagatgtgc tttgaaaag ttgaaatgtg 2460  
taattgtttt ggaataaaga gggtaacaat aggaaaaaaaaaaaaaaa aacncgagg 2520  
ggggcccggt ncc 2533

<210> 271

<211> 1618



<220>  
<221> misc feature  
<222> (425)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (429)  
<223> n equals a,t,g, or c

<400> 272  
aaacagcaag tgggaactca gcattcaagt taactttag agctacccag ctgctaagag 60  
cagtgtgatc tttggtgctc ttaggatcac tttgttatct gtcatttc cttttgtct 120  
accctataaaa gcacaaaatc gagtggtaa aaagtatgaa accagcactg tttctacttt 180  
cttagaggtc tggtatctag tgagcaggct gaggccttag gactagttca gtgttaagga 240  
tttcatgttg aaactcattt gtcctctgtg gggttttga cagtagagag tgacctaact 300  
catttgattt tgttttccc tcagttgact ttccatcttc agttcgaata catttaattt 360  
acccaaaatgg cagacattga gtgagttactt cttgncccag tttnaattct ttcccttcctt 420  
ttttnccng gttgtgagtt aatttgttca acttctgggt tcagggtttt 470

<210> 273  
<211> 983  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (879)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (915)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (930)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (967)  
<223> n equals a,t,g, or c

<400> 273  
ccaagcgaa gtgacgttag tgtccgcgg agtgtcggtt gtgtgttgcg cgactggcct 60  
tgagggagag ctggggcctg ctccccggaga gatacggcta tgtcgatcga aatcaatct 120  
tcggatgtga tccgccttat tatgcagttac ttgaaggaga acagtttaca tcgggcgtta 180  
gcaccttgca ggaggagact actgtgtctc tgaatactgt ggacagcatt gagagtttg 240

tggctgacat taacagtggc cattgggata ctgtgttgca ggctatacag tctctgaaat 300  
tgccagacaa aaccctcatt gacctctatg aacaggttgt tctggaattg atagagctcc 360  
gtgaatttggg tgctgccagg tcacttttaa gacagactga tcccatgtac atgttaaaaac 420  
aaacacagcc agagcgatat attcatctgg agaacctttt ggccaggctt tactttgatc 480  
ctcgtgaggc atacccagat ggaagtagca aagaaaagag aagagcagca attgcccagg 540  
ccttagctgg cgaagtcaagt gtgggccttc catctcgatc catggcattt ctgggacagg 600  
cactgaagtgc cagcagcat cagggatttc ttccytcctgg tatgaccata gattttttc 660  
gaggcaaggc agctgtcaaa gatgtggaaag aagaaaagtt tcctacacaa ctgagcaggc 720  
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tatgggtca ctgggtctgt tgatggatc attgaagtat gggaaacttta ctactggaaa 840  
aatcagaaaag gatcttaagt taccaggccc aagattaant ttatggatga tgggttgatg 900  
ctgttccctt ggcangtgg ttcagccagn ggtaacagaa atgttttagcc aacttgggc 960  
cccaggnntgg gaaaattcaa ggt 983

<210> 274

<211> 2006

<212> DNA

<213> Homo sapiens

<400> 274

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cccacacact ggagtaattt taaaaaaaat tatttcctaaa ctctctaagt gtggacggag 120  
aatgagcaag cccccagaagt attttacaac cagagtgggt aatgaggagg gggcttactg 180  
gaatcgcat atctctgaat attgaaaaca acaactaaaa aagtggacat tctcagaaaa 240  
aaaggggcagc aaatgaccaaa gggcgccctt tctggccgtg cttggcttga gtaactgtct 300  
ctctttcccc acccccatca cagggcttcc agtttggcaa aggaaaagca gataaaaaaca 360  
gaacatttca tatgtttctt tctccatcgat ccaaaaaacat ttgacacaaa tgtttgtaa 420  
acaccttgg agaggtgcac ttctgaatgc tgcctctgatc gtaatcctg gggcaagg 480  
atcagccctt tcccaggaac catcgcccttc tataaaccgt gaactcaagc aggcatttt 540  
tttttcttac cgaaaggctg ctattgtgc agggcacata atgggtctgt ttgcttttat 600  
tggcttccaa atgtgcatgg caaagagaga gatgtggcc tagacgat atattcagca 660  
aggtgacagy ttcccataac aattctaaca cttcttatct tatgtgagaa taaaatattt 720  
aagggttggaa ccttatttttgc ccaaattgtat cttttctgtt tttgaattgg gcagaagatt 780  
ttagcaacta tattctacaa atgttactta taacacacac acacacatct gaaatatatg 840  
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gatggccctag gacataggtc tcaaagactc ttggatcaga atcaggagat tagggaaaac 1500  
aggatggata cctgagcact aacagcagta gacgttagacc tctgtccctt accatctgag 1560  
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tgcttgcaag tgtgcattgtt tcaatccctc acatccagga aatgaattttt gcaatgggc 1680  
cagatgcataa ttgcacgtt gattcacctt ctttgcatttgc aagcctttttt tttctttttt 1740  
ttttttttgg caaatgaatg taccatttc actttgatatt taatagtgtt agttgatatt 1800  
ggtataataatg ctaaccaaga gatcaatgcc agattttctt cttggggtaa gttagctgaa 1860

gtcatttaaa gatggaaaagg tgggaaaatt ctttgatatt tgatgtcatt gtatccacat 1920  
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aaaaaaaaaaaa aaaaaaaaaa aaaaaat 2006

<210> 275  
<211> 1376  
<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc feature  
<222> (4)  
<223> n equals a,t,g, or c  
  
<220>  
<221> misc feature  
<222> (1368)  
<223> n equals a,t,g, or c

<400> 275  
aaanaacaaa agatccagat gttcgattgg gcctcaatca gcattaccca agcttaaac 60  
cacctccatt tcagtaccat caccgtamc ccatgggatt ggtgtgacag ccacaaattt 120  
caactacacac aatattccac agactttcac taccgccatt cgctgcacaa agtgtggaaa 180  
aggtgtcgac aatatgccgg agttgcacaa acatacctg gttgtgctt ctgcaagtga 240  
caagaagagg tacacgccta agaaaaaccc agtaccatta aaacaaactg tgcaacccaa 300  
aaatggcgtg gtggtttag ataactctgg gaaaaatgcc ttccgacgaa tgggacagcc 360  
caaaaggctt aacttttagt ttgagctcg caaaatgtcg tgcataaagc tcaaattaaa 420  
tgcattgaag aaaaaaaaaatc agctagtaca gaaagcaatt cttcagaaaa acaaatctgc 480  
aaagcagaag gccgacttga aaaatgcttg tgagtcatcc ttcacatct gcccttactg 540  
taatcgagag ttcaacttaca ttggaagcct gaataaacac gccgccttca gctgtcccaa 600  
aaaacccctt tctccccc aaaaaaaaaatc ttctcattca tctaagaaaag gtggacactc 660  
atcacctgca agtagtgaca aaaacagtaa cagcaaccac cgcagacgga cagcggatgc 720  
ggagattaaa atgcaagca tgcagactcc gttggcaag accagagccc gcagctcagg 780  
ccccacccaa gtcccacttc cttccatc cttcaaggcc aagcagaacg tcaagttgc 840  
agttcgtgaa aatccaaaa aaccaagctc ctcccttttta aggaactcca gcccgataag 900  
aatggccaaa ataactcatg ttgaggggaa aaaacctaaa gctgtggcca agaatttttc 960  
tgctcagtt tccagaaaa catcacggag cctgcacgtg agggtacaga aaagcaaagc 1020  
tgttttacaa agcaaatacca ctttggcgag taagaaaaga acagaccggt tcaatataaa 1080  
atctagagag cggagtgggg ggccagtca cccggccctt cagctggcag ctgctgctga 1140  
ctttagttag aacaagagag aggacggcag cgcaagcagg agctgaaggg cttcagctac 1200  
agcctccgct tggcgtcccg atgcttcca ccagcggccc cgtacatcac cagggagtt 1260  
aggaaggctt aagctccagc tkcagccca gttttagggg accattttc aaagggtaga 1320  
caactctgggc ttgtttccct tgacagcacc ttgaagttga cctgggantc agttga 1376

<210> 276  
<211> 2594  
<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc feature

&lt;222&gt; (2198)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 276

gcccacgcgt ccgcccacgc ggccacgccc cgccggctct gggcactcag catcgttcc 60  
tttccctccg ctggagcago tatggcggcg gtgaagaccc tgaacccaa ggccgaggtg 120  
gcccagacgc aggcggcgct ggccgtcaac atcagcgcag cgccgggtct gcaggacgtg 180  
ctaaggacca acctggggcc caagggcacc atgaagatgc tcgttctgg cgctggagac 240  
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gcttccttaa tagcaaagg agcaacagcc cagatgata taactggta tggtacgact 360  
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aaaaaaaaaaa aaaa 2594

&lt;210&gt; 277

&lt;211&gt; 679

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (438)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (617)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (653)

<223> n equals a,t,g, or c

<400> 277

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ccacaccagc ctgcaggagt tcctgcgcca gctgctcacc ttctacaagg tggctggcgg 420  
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ggtcagacg gcccggggg actactcagg caacatcgag tggccagctg cacactctgt 540  
tcagccgtgc ggcytcttg ctgcgcgccc tctgargccg tcaagtccgc cgccawcccc 600  
tactggctgt tgctcangcc ccagcaactca aagtmatcaa agccgacttc aancatgc 660  
ccaaaccgtg gaaccaaaa 679

<210> 278

<211> 1478

<212> DNA

<213> Homo sapiens

<400> 278

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gccaaaggct tgcacagcag cagggcgtctt ggctgcccac aagataatgg ctagctcccc 180  
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cccttcatcc tggatgaaat aggccgcgac attgaggaca gacacattgt ggtgtcctgc 360  
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gattaaaaat tcaatgtaat ctaaaaaaaaaa aaacaaaaa 1478

<210> 279

<211> 2321

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (474)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<400> 279

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tggctctgga ggactgggtgg cggcgcccc cgaagccttc gggcccttcc tgccacgcga 180  
gcgcctggct cgttcctga accccgatga rgtgcacgccc attctgcgcg cggcgagag 240  
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gactgcttt cgggcactac ttccccgagc agtccggaccc ggagccamcg ctgttggagc 360  
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tccagccccc cggcgctggc gaagggtggcc cctacggctg caaggacgct ctngccaca 480  
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cttcagagac ctgcaagaaa tatgcaggaa acaggagtt gctgtgtata tccttctgga 600  
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taagattatt gggaaaggttc acgaaaagtt cacgttgcatt gatggcatcc gcgtggcaac 780  
aggctccctac agttttacat ggacggatgg caaattaaac agcagtaact tggtaattct 840  
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<210> 280

<211> 1693

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (200)

<223> n equals a,t,g, or c

<400> 280

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gtatcccccg ttccccatct agtaactccc atctcagccc acgtatctcc ctgagtggaa 120  
atctcgccgc ccagaccagt cgattggag gtccgcctc cccttcagcg acttggctcg 180  
tgttttggca gttgccgcgn acaacagtc attccggaa ggggctctgc gaatccctt 240  
ccgtcggtcc gctcagaatc agctgcctc tcagactgtg tgggtggtt ccccgccgc 300  
agctccgtac gggcttggat tgctgggcct cggtgcaccc cggcctcccc cactcggtt 360  
ctgagctga gctggcggt cttaactct gtttactgt tgctcttggc aacatccact 420  
tccgggagcg agtgcgttt ccccgctca ccgcgggcta gggagcgtgg gattccggac 480  
tgtgagcgcc tggtagtgcg tcgcagctgc tggcgttccg gcgaccctcg gccggcagga 540  
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gttctgtgc acgtgaagcg gggcgacgag agccagttcc tgctgcaggg gcctggaggt 660  
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ttgtttcagg act 1693

<210> 281  
<211> 258  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (42)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (64)  
<223> n equals a,t,g, or c

<400> 281  
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gctnccggca cccatggtcc cagtgccttg gaatggagac ggccagttct gggggccagat 120  
gtggtgcctct ggaatccagt cccatttct tcctggccac gagctgtccc agcggcctct 180  
tcagcccat tcagcccccta cttacctggg gaccccggtt ggggcacgag aagcaccagg 240  
gggggttaggg cccaaagg 258

<210> 282  
<211> 1764  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1764)  
<223> n equals a,t,g, or c

<400> 282  
gctgtgtcttggagtt tyayccagaa tggggggaaa aacccccag 60  
gtgccaggta ccccgcatcg tgacccttca cttgtgtct taggaagtca agctgaggaa 120  
tgctgatcc tccctgtcg gcccctgcag ccccagccct gctttcatc ccccacccct 180  
gcaaacatgg aggcccccc tccttctcac ctgcgtctcc tagccccctga catggagaas 240  
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aaggggcagc agaggccctcg tggcacgtcc gtggccaggg agccccactgt cctggctggc 360  
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tcaaggatgc ccatctggtg tccagttgcc ttttgtattc aatgaaaat gctttgtaca 600